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WB details!

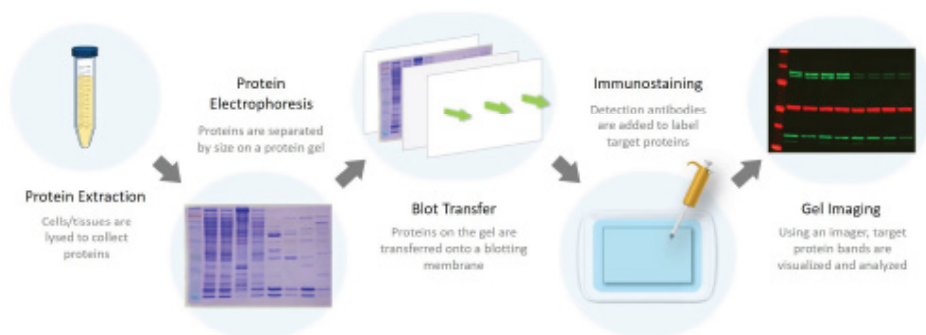


# WESTERN BLOTTING

[www.scientifix.com.au](http://www.scientifix.com.au)

**scientifix**

General Workflow of a Western Blot



Protein Extraction/ Quantification



**xTractor Buffer** for flexible and efficient cell lysis and protein extraction from bacterial, yeast, mammalian, and baculovirus-infected cells. This cell lysis reagent provides fast and efficient (10 min) lysis using mild, non-denaturing conditions.

PRODUCT	CODE	SIZE
<b>xTractor -Cell Lysis Buffer kit (includes buffer, lysozyme &amp; DNase II)</b>	<b>635623</b>	<b>10 extractions</b>
xTractor -Cell Lysis Buffer	635625	500mL
<b>xTractor -Cell Lysis Buffer</b>	<b>635671</b>	<b>250mL</b>
Phosphoprotein Kit - Buffer A	635626	500mL
<b>ProteoGuard- Complete Protease Inhibitor Cocktail</b>	<b>635673</b>	<b>10 x 100uL</b>
ProteoGuard- Complete Protease Inhibitor Cocktail	635672	100uL

Protein Extraction/ Quantification



Convenient and reliable kit for the determination of protein concentration at 570nm with microplates or semi -micro and micro cuvettes or low volume

PRODUCT	CODE
<b>Protein Quantification Assay</b>	<b>740967.50</b>
	<b>740967.250</b>



Protein Extraction/ Quantification



Light up your lab with the brightest colours: Broad range of chemiluminescent and fluorescent reagents for your immunoassays. QPRO is a Bicinchoninic Acid (BCA) based protein assay for highly sensitive colorimetric analysis. The BCA method is fast and easy, providing enhanced flexibility. The Bicinchoninic acid assay (BCA) relies on the production of Cu<sup>+</sup> which is converted into a violet-coloured substance when reacting with bicinchoninate.



PRODUCT	CODE	SIZE
<b>QPRO-BCA kit standard</b>	<b>PRTD1</b>	<b>Reagent A- 500mL Reagent B- 15mL</b>  <b>Sufficient for 250 test tubes or 2500 microplate assays</b>
<b>µQPRO-BCA kit Micro</b>	<b>PRTD2</b>	<b>Reagent A- 240mL Reagent B- 240mL Reagent C- 12mL</b>  <b>Sufficient for 480 test tubes or 3,200 microplate assays</b>

Protein Electrophoresis

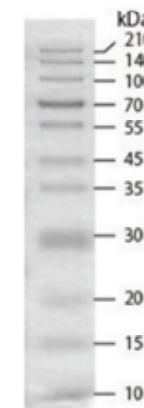


Protein Ladder Sets: CLEARLY Protein Ladder Molecular Weight Markers

Convenient and ready-to-use CLEARLY Protein Ladder sets are mixtures of 11 highly purified recombinant proteins. These protein ladder sets provide molecular weight markers ranging from 10–250 kDa (unstained ladder) or 10–210 kDa (pre-stained ladder) during SDS-PAGE.

PRODUCT	CODE	SIZE
<b>CLEARLY Stained Protein Ladder*</b>	<b>3454A</b>	<b>500ul (50 Rxns)</b>
<b>CLEARLY Protein Ladder (Unstained)**</b>	<b>3453A</b>	<b>500ul (100 Rxns)</b>
<b>CLEARLY Protein Ladder (Unstained)**</b>	<b>3453B</b>	<b>1,500ul (300 Rxns)</b>

\*10kDa / 15kDa / 20kDa / 30kDa / 40kDa / 50kDa / 60kDa / 80kDa / 100kDa / 150kDa / 250kDa  
\*\*10kDa / 15kDa / 20kDa / 30kDa / 35kDa / 45kDa / 55kDa / 70kDa / 100kDa / 140kDa / 210kDa



## Protein Electrophoresis

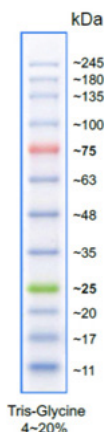


### GangNam-STAIN™ Prestained Protein Ladder

- Broad protein marker with 12 bands in the range of 10~245 kDa
- Clear identification by two reference bands, 25 kDa(Green) and 75 kDa(Red)
- Easy-to-use ladder without prior processing
- Suitable for Western blotting, CBB staining, Silver staining and etc

PRODUCT	CODE	SIZE
GangNam-STAIN Protein Ladder <sup>^</sup> (prestained)	24052	250ul (~60 to 80 Rxns)

<sup>^</sup>11kDa / 17kDa / 20kDa / 25kDa / 35kDa / 48kDa / 63kDa / 75kDa / 100kDa / 135kDa / 180kDa / 245kDa (TRIS-Glycine 4-20%)



## Protein Electrophoresis



### Major Science Complete System for Mini Vertical Electrophoresis

- Low buffer consumption
- Single moulded tank
- Up to 4 gels run at one time
- Great indications for gel making and running
- Ice cooling pack
- Easy gel casting and no gel leakage
- Competitive pricing
- Compatible with all precast gels (100x100mm or 100x80mm)

#### Package includes:

- 1 x Mini Vertical unit
- 2 x 2mm thick notched glass plates
- 2 x 2mm thick plain plates with 1mm thick bounded spacers, 1 x dummy plate
- 2 x combs (1mm thick, 12 samples), 1 x casting base, silicone mat, cooling pack

PRODUCT	CODE
Major Science Mini Vertical Electrophoresis System (without blotting – electrophoresis only)	MV-10DSYS



## Protein Electrophoresis



### Major Science Mini Pro 300V Power Supply

- New housing and exterior design
- Constant voltage or constant current operation
- 10 - 300V max. voltage / 1V step voltage selection
- 10 - 400mA maximum current / 1mA step current selection
- 60W maximum power
- Two pairs of outlet terminals
- Timer with alarm function / 1-999mins or continuous
- No load detection; shrouded plugs and sockets
- Compact size 134 x 189 x 85mm (W x L x H)
- Lightweight: 0.9 kg
- Operating Temperature: Ambient to +40°C
- Polycarbonate housing and aluminum base plates



PRODUCT	CODE	SIZE
Major Science Mini 300V Power Supply	Mini-300V	250ul (~60 to 80 Rxns)

## Blot Transfer



### PoraBlot PVDF Protein Transfer Membrane

Superior protein binding capacity and higher sensitivity for proteins expressed in low levels.

Use for chemiluminescence based protein detection

- PVDF material
- Pore size: 0.2um
- High binding capacity: 50-100ug/cm<sup>2</sup>
- Uniform, carefully controlled pore structure and size
- Outstanding band resolution
- Cost effective
- Optimum results for all protein related applications



PRODUCT	CODE	SIZE
PoraBlot PVDF Transfer Membrane	741260	1 x Roll: 0.25m W x 3m L

Blot Transfer



MACHEREY-NAGEL  
www.mn-net.com

**PoraBlot Nitrocellulose Transfer Membrane**

Lower background noise but lower sensitivity than PVDF - use for proteins expressed at high levels.  
Use for both chemiluminescence and fluorescence based protein detection

- Nitrocellulose material
- High binding capacity 100ug/cm<sup>2</sup>
- Optimum results for all protein related applications
- Supporting tissue option- membrane more stable and suitable for when higher temperatures are required.



PRODUCT	CODE	SIZE
PoraBlot Nitrocellulose Membrane for blotting applications	741280	1 x Roll: 0.3m W x 3m L
PoraBlot Nitrocellulose Membrane with supporting tissue for blotting applications*	741290	1 x Roll: 0.3m W x 3m L

\* Supported nitrocellulose membrane has increased strength and resilience and recommended for stripping and re-probing.

Blot Transfer



**Major Science Complete System for Mini Vertical Electrophoresis & Blotting**

- Versatile: Interchangeable modules for slab gel and Electrophoresis using a single universal buffer tank
- Also available as separate electrophoresis and blotting system
- Hinged Cassettes
- High intensity electrodes
- Maximum 4 blot capacity
- Rapid set-up cooling
- Gel Size: 100x100mm
- Unit Dimension :190W x 130L x 150Hmm



**Package includes:**

- 1 x Mini Vertical unit
- 2 x 2mm thick notched glass plates
- 2 x 2mm thick plain plates with 1mm thick bounded spacers, 1 x dummy plate
- 2 x combs(1mm thick,12 samples), 1 x casting base, silicone mat, cooling pack
- 1 x Internal electro-blotting module
- 3 x Compression cassette for gel size up to 100 x 100mm
- 6 x fibre pads

PRODUCT	CODE
Major Science Mini Vertical Electrophoresis and Blotting System	MV-10CBS

Blot Transfer



**Major Science Complete System for Mini Electro Blotting System**

- Stand alone system Ideal for wet electroblotting of proteins
- Run up to 5 transfer cassettes concurrently
- Hinged cassettes for added convenience
- Accommodates gel thickness from 0.25 to 3mm
- Suitable for 10x10cm gels



**Package includes:**

- 1 x electro-blotting module with lid
- 5 x Compression cassette for gel size up to 10 x 10 cm
- 16 x fibre pads
- Cooling pack
- Power leads

PRODUCT	CODE
Major Science Mini Electro Blotting System	MEBM-10

**Major Science Semi-Dry Blotting System**

- Low buffer consumption
- Rapid transfer time
- Western, Southern and Northern blots
- Screw-down lid - Gels from 0.25 up to 10mm thick
- Uniform heat dispersion
- Long-life electrodes
- 2 Sizes
  - o Mini – 1 x 10 x10 cm gel
  - o Midi – 1 x 20x 20cm gel (or 4 x 10x0cm gels)



PRODUCT	CODE	SIZE
Major Science Semi-Dry Electroblotting System - MINI	MSD10	MINI
Major Science Semi-Dry Electroblotting System - MIDI	MSD20	MIDI



Blot Transfer



Major Science Power Supply MP-310

- Output Voltage/Inc: 2-300V / 1V
- Output Current/Inc: 1-700mA / 1mA
- Max.Watt: 150W
- 2.4" Colour TFT multi-display screen
- Operating Constants: Voltage or Current
- Control: Microprocessor Controller
- Terminator Outlets: 4 pairs
- Program: Up to 30 with 6 steps each
- Safety Devices:
  - o No Load detect
  - o Leakage detect
  - o Overload detect
  - o Load change detect
  - o Over temperature protection
- Shrouded plugs and sockets
- Crossover: Yes
- Operating Temperature: +4°C to +40°C (possible to use in cold room)
- Unit Dimensions: W215x L335 x H104mm
- Weight: 2.1kg
- Stackable



PRODUCT	CODE
Major Science 300V / 700mA Power Supply	MP-310

Blot Transfer

Western BLoT Blocking Buffer

- Low background allows clear detection of antigens
- Blocking buffers are ready-to use without dilution
- Can be used for blocking as well as dilution of primary and secondary antibodies
- Compatible with secondary antibodies labelled with alkaline phosphatase or horseradish peroxidase



PRODUCT	CODE	SIZE
Western BLoT Blocking Buffer (Protein Free)	T7132A	500ml
Western BLoT Blocking Buffer (Fish Gelatin)	T7131A	1,000ml

Blot Transfer



BovoStar BSA is a premium grade product that is ideal for a variety of applications requiring a product with high protein purity and low endotoxin.

PRODUCT	CODE	SIZE
BSA-Australian Origin BSA	BSASAU-0.1	100gm
BSA-Australian Origin BSA	BSASAU-1.0	1kg

Immuno Staining



Antibodies to detect fluorescent proteins.

Monoclonal and polyclonal antibodies to detect common fluorescent proteins, across the spectrum.



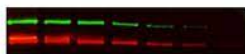
PRODUCT	CODE	SIZE
Living Colors® DsRed Polyclonal Antibody*	632496	100uL
Living Colors® DsRed Monoclonal Antibody**	632393	20uL
Living Colors DsRed Monoclonal Antibody**	632392	200uL
Living Colors Anti-RCFP Polyclonal Pan Antibody	632475	100uL
Living Colors® Full-Length GFP Polyclonal Antibody	632582	100uL
Living Colors® EGFP Monoclonal Antibody	632569	100uL
Living Colors® Full-Length ZsGreen Polyclonal Antibody	632474	100uL
Living Colors® Ax1 Monoclonal Antibody (JL-8)	632381	200uL
Living Colors® mCherry Monoclonal Antibody	632543	100uL

\*This antibody recognizes DsRed-Express, DsRed-Express2, DsRed-Monomer, mCherry, DsRed2, Es-Crimson, tdTomato, mTomato, and mBanana, and both N- and C-terminal fusion proteins containing these fluorescent proteins in mammalian cell lines.  
 \*\*This antibody recognizes dualized forms of mCherry and its variants, including DsRed1, Cellfect2, and DsRed1-Es Neo Fluorescent Tag2. The antibody binds DsRed1 and Cellfect2 even when these proteins are expressed as fusions to other proteins. Both N- and C-terminal fusions are recognized.

Immuno Staining



**IR-BLOT Secondary Antibodies**  
Optimised for quantitative Western blots in the IR region- Highly Cross Adsorbed suitable for Multiplexing.



IR-BLOT 700 Goat anti-Mouse  
IR-BLOT 800 Goat anti-Rabbit

PRODUCT	CODE	SIZE
IR-BLOT 700 Goat anti-Mouse IgG(H&L)	F2H112	0.1 mg Lyophilized
IR-BLOT 700 Goat anti-Rabbit IgG(H&L)	F2H111	0.1 mg Lyophilized
IR-BLOT 800 Goat anti-Mouse IgG(H&L)	F1L108	0.1 mg Lyophilized
IR-BLOT 800 Goat anti-Rabbit IgG(H&L)	F1L107	0.1 mg Lyophilized

**STAR FLUOR Secondary Antibodies- Highly Cross Adsorbed**

	Target		Application			
	Goat anti-mouse	Goat anti-rabbit	Flow Cytometry	Western Blotting	Cell Imaging - Immunohistochemistry (IHC) - Immunocytochemistry (ICC) - Immunofluorescence (IF)	Fluorescent Immunoassay (FIA)
Fluorophore	Star Fluor488	✓	✓	✓	✓	✓
	Star Fluor550	✓	✓	✓	✓	✓
	Star Fluor645	✓	✓	✓	✓	✓
	Star Fluor680	✓	✓	✓	*	✓
	Star Fluor770	✓	✓	✓	*	✓

\* For western blotting in the Infrared Region we recommend IR-BLOT 700 and IR-BLOT 800

PRODUCT	CODE	SIZE
STAR FLUOR 488 Goat anti-Mouse	F5A165	0.1 mg Lyophilized
STAR FLUOR 488 Goat anti-Rabbit	F5A166	0.1 mg Lyophilized
STAR FLUOR 550 Goat anti-Mouse	F4D171	0.1 mg Lyophilized
STAR FLUOR 550 Goat anti-Rabbit	F4D172	0.1 mg Lyophilized
STAR FLUOR 645 Goat anti-Mouse	F2H167	0.1 mg Lyophilized
STAR FLUOR 645 Goat anti-Rabbit	F2H168	0.1 mg Lyophilized
STAR FLUOR 680 Goat anti-Mouse	F2H173	0.1 mg Lyophilized
STAR FLUOR 680 Goat anti-Rabbit	F2H174	0.1 mg Lyophilized
STAR FLUOR 770 Goat anti-Mouse	F1L169	0.1 mg Lyophilized
STAR FLUOR 770 Goat anti-Rabbit	F1L170	0.1 mg Lyophilized

Gel Imaging/Detection



**Western BLOT Chemiluminescent Substrate Series For HRP**

Chemiluminescent substrates for detecting horseradish peroxidase (HRP)-labelled antibodies used during Western blotting.



PRODUCT	FEATURES	DETECTION LIMIT	DETECTION METHOD	MEMBRANE
Western BLOT Chemiluminescence HRP Substrate	Stronger signal than other equivalent ECL substrates.	Picogram	X-ray film	Nitrocellulose, PVDF
Western BLOT Quant HRP Substrate	Long-lasting, stable signal. High sensitivity and quantitative accuracy.	Low picogram	CCD camera, X-ray film	Nitrocellulose, PVDF
Western BLOT Hyper HRP Substrate	Quantitative detection even for low-abundance proteins. Strong signal when high dilution factor for the primary antibody is used.	Femtogram	CCD camera, X-ray film	Nitrocellulose, PVDF
Western BLOT Ultra Sensitive HRP Substrate	Highest sensitivity in the series.	Low femtogram	CCD camera, X-ray film	Nitrocellulose, PVDF

PRODUCT	CODE	SIZE
Western BLOT Chemiluminescence HRP Substrate	T7101A	250mls
	T7101B	500mls
Western BLOT Quant HRP Substrate	T7102A	100mls
	T7102B	200mls
Western BLOT Hyper HRP Substrate	T7103A	100mls
	T7103B	200mls
Western BLOT Ultra Sensitive HRP Substrate	T7104A	100mls
	T7104B	200mls

Gel Imaging/Detection



**Western BLoT Rapid Detect v2.0: IgG detection without a secondary antibody**

Western blot detection reagent kit used to detect primary antibodies using an HRP-labelled IgG Detector instead of a labelled secondary antibody. Combine with the Western BLoT HRP Substrate series.

- Western blot signal detection without using a labelled secondary antibody
- Simultaneous detection of multiple primary antibodies
- Detection of minute quantities of antigen that cannot be detected using conventional techniques with a labelled secondary antibody
- Secondary antibody enhancement: IgG detector can be used after conventional techniques (labelled secondary antibody) to intensify the signal
- Re-probing blots that produced a weak signal with conventional techniques (labelled secondary antibody)



PRODUCT	CODE	SIZE
Western BLoT Rapid Detect v2.0	T7122A	50 rxns

**Western BLoT Immuno Booster: Western Blot Signal Enhancer**

- Western blot signal enhancer
- Increase the final detection sensitivity in immunoassays, such as Western blots and ELISAs
- Highly sensitive detection of low abundance proteins without having to change HRP substrate or the amount of antibody
- Protein-free version is available

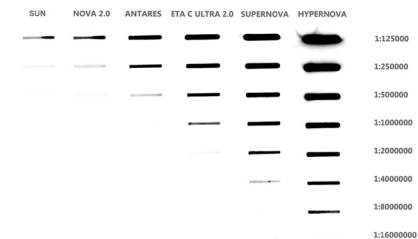


PRODUCT	CODE	SIZE
Western BLoT Immuno Booster PF (Protein Free)	T7115A	250ml
Western BLoT Immuno Booster	T7111A	500ml

Gel Imaging/Detection



**WESTAR ECL Substrates for Western Blotting (two component)**



PRODUCT	FEATURES	DETECTION LIMIT
WESTAR SUN	Long signal duration	Mid picogram
WESTAR NOVA 2.0	Ideal for routine analysis. Best entry level ECL substrate	Low picogram
WESTAR ANTARES	Extended signal duration High range flexibility(?)	Mid Femtogram
WESTAR ETA C ULTRA 2.0	Best compromise between High signal intensity and a very long signal duration	Mid to Low femtogram
WESTAR SUPERNOVA	Signal intensity better or equal to top-level competitors. Low antibody consumption	Low femtogram
WESTAR HYPERNOVA	Shortened exposure time. Saves precious samples. Low antibody consumption	Trace amounts of protein

\* Working Solution for All Substrates is stable for 3-5 days

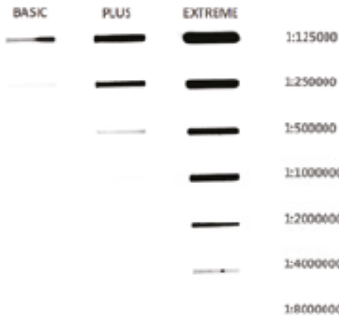
\*\*Prolonged Signal duration

\*\*\*Suitable for different types of membranes and blocking reagents

PRODUCT	CODE	SIZE
WESTAR SUN	XLS063	2 x 125mL kit
WESTAR NOVA 2.0	XLS071	2 x 125mL kit
WESTAR ANTARES	XLS0142	2 x 125mL kit
WESTAR ETA C ULTRA 2.0	XLS075	2 x 50mL kit
WESTAR SUPERNOVA	XLS3	2 x 50mL kit
WESTAR HYPERNOVA	XLS149	2 x 10mL kit 2 x 50mL kit

Gel Imaging/Detection

WESTAR ECL Substrates for Western Blotting (one component)



PRODUCT	FEATURES	DETECTION LIMIT	CODE	SIZE
WESTAR-ONE BASIC	No mixing required Ideal for everyday detection needs. Ready to use at RT	Mid picogram	XLSU177	250mL
WESTAR-ONE PLUS	No mixing required Compatible with a wide range of antibody dilutions. Ready to use at RT	Mid Femtogram	XLSU178	250mL
WESTAR-ONE EXTREME	No mixing required Low antibody consumption Ready to use at RT	Mid Femtogram	XLSU180	250mL

RENEW STRIPPING BUFFER

Ready-to-use solution allowing primary and secondary antibodies to be quickly removed from nitrocellulose and PVDF membranes, allowing for reprobing of blot.

- Effective: robust formulation for stripping most antibodies in short time
- Gentle: does not damage target proteins on the blots
- Saves time: no need to re-run gels and blots
- Saves sample: re-probe the membrane using the same target protein
- Safe: non-toxic and odorless formulation



PRODUCT	CODE	SIZE
RENEW Stripping Buffer	SBS069,0050	50mL
RENEW Stripping Buffer	SBS069,0250	250mL
RENEW Stripping Buffer	SBS069,0500	2 X 250mL

BUFFERS

Phosphate buffered saline (PBS) buffer is commonly used as a wash and/or dilution solution in a variety of applications including tissue dissociation, cell culture, Western blotting, ELISA, and immunohistochemistry. This product comes as tablets for easy preparation of PBS buffers. Tablets are available for PBS, PBS without potassium, and PBS containing Tween 20 (PBS-T).



Other commonly used buffers in western blotting are also available in ready to dissolve pouches.

PRODUCT	CODE	SIZE
Phosphate Buffered Saline with Tween®20	T9183	100 tablets
Phosphate Buffered Saline (PBS) Tablets without Potassium	T9182	100 tablets
Phosphate Buffered Saline (PBS)	T9181	100 tablets
Tris Buffered Powder, pH7.4	T9153	10 pouches (1000mL/pouch)
Tris Buffered Saline (TBS)	T9142	10 pouches (1000mL/pouch)
Tris-Glycine Buffer Powder	T9102	10 pouches (1000mL/pouch)
Tris-Glycine-SDS Buffer Powder	T9101	10 pouches (1000mL/pouch)

Assay Genie



Supporting the life sciences across the world by providing

- Premium validated antibodies and proteins coupled with highly validated assays
- Extreme sensitivity
- Save time/save money

INNOVATIVE IMAGING

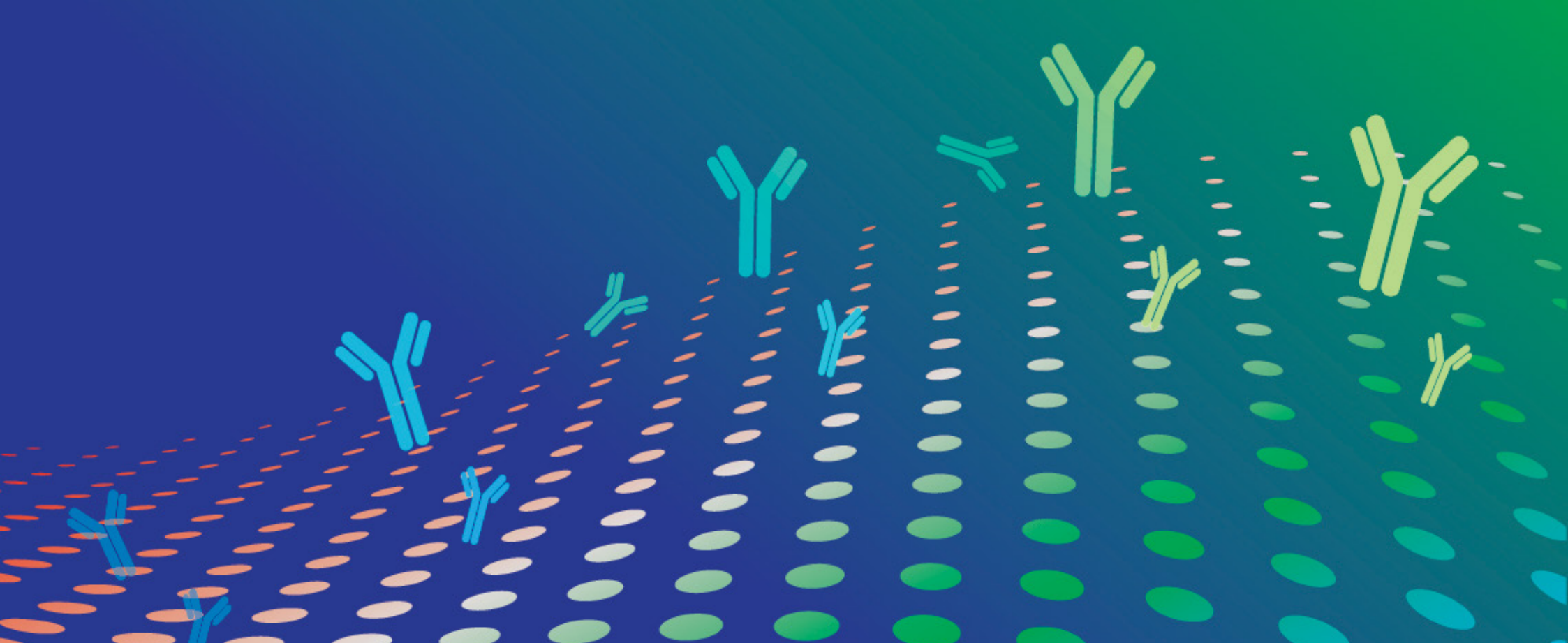


- Authentic imaging specialists
- Complete range of Chemiluminescence and Fluorescence Imaging Systems
- Unrivalled sensitivity and performance



INQUIRE NOW





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