

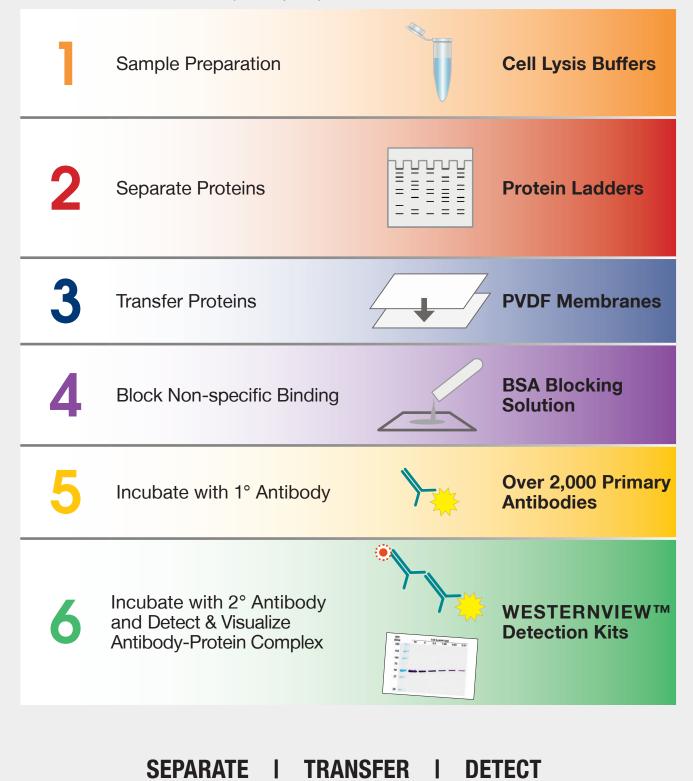
Western Blotting Enhanced Protein Detection



enzolifesciences.com

SIMPLIFY YOUR WESTERN: SIX SIMPLE STEPS

Western blotting is viewed as the gold standard for protein detection in molecular biology research. Common detection methods involve spending a lot of time in the dark room, guessing your optimum exposure time. Ditch the darkroom and give your assay an upgrade with our complete portfolio of antibodies, reagents, and supplies to simplify your Western blot workflow. Results develop before your eyes.



■ WESTERNVIEW[™] Detection Kits

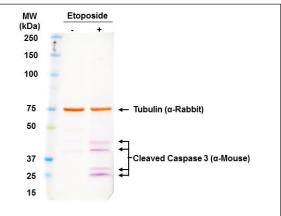
The most common method of visualization still seen today is a chemiluminescent reaction. This involves spending time in a tight dark room, with a timer and a list of exposure times, which are mostly chosen based on educated guesswork. Who wants to spend all that time in the dark? Enzo has removed the need for you to spend time in the dark room. Let your blot develop before your eyes, right there on your bench!

The WESTERNVIEW[™] Detection Kits for Western Blot analysis quickly and clearly reveal bands on the transfer membrane without the need for specialized equipment.

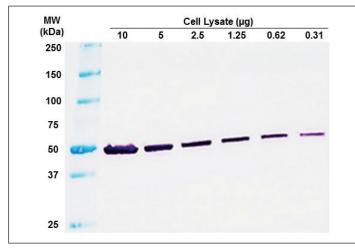
- A simple solution for real-time results no film developer or fluorescent reader required or time in the dark room.
- **High sensitivity** quickly visualize your bands with minimal overexposure risk and with no visible background.
- **Convenient and easy to use** includes secondary antibody and all reagents necessary to visualize your bands.

For high sensitivity, ease of use, and long-lasting signal, try our new WESTERNVIEW Detection Kits.

Reliably Distinguish Multiple Targets



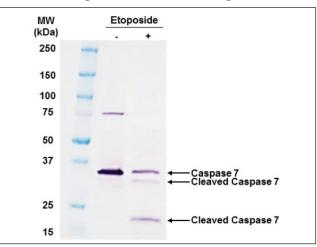
PANC-1 cells treated with or without etoposide. Loaded total cell lysate (20 μ g) and simultaneously incubated with tubulin and caspase antibodies before being developed with the ENZ-KIT163.



Sensitive Results Without Expensive Equipment

Total cell lysate from Jurkat cells. Membrane was probed with anti-tubulin. Detected using ENZ-KIT182 and exposed for 1 minute.

Clear Signals Without the Background



Jurkat cells treated with or without 12.5 μM etoposide for 18 hours. Loaded 12 μg lysate per well.

Product Name	Product #	Kit Contents
WESTERNVIEW Detection Kit (Anti-Mouse)	ENZ-KIT182	AP Anti-Mouse Secondary, NBT/BCIP, Antibody Diluent, 10x Wash Buffer
WESTERNVIEW Detection Kit (Anti-Rabbit)	ENZ-KIT183	AP Anti-Rabbit Secondary, NBT/BCIP, Antibody Diluent, 10x Wash Buffer
WESTERNVIEW Dual Detection Kit (Anti-Mouse / Anti-Rabbit)	ENZ-KIT163	HRP Anti-Mouse Secondary, AP Anti-Rabbit Secondary, NBT/BCIP, DAB Chromogen, DAB Substrate Buffer, Antibody Diluent, SignaSure® Butter Salts, Tween®-20

Blotting Membranes

Optimized for Western Transfer

- Sensitive protein detection with low background and very low burn-through
- Provides high surface area for strong hydrophobic interactions (adsorb 50% more protein than nylon or nitrocellulose.)
- Broad solvent compatibility

Membrane Type	Polyvinylidene Fluoride (PVDF)	Membrane Type	Polyvinylidene Fluoride (PVDF)	
Protein Binding Capacity	100-300 µg/cm ²	Detection Methods	Chromogenic	
Solvent Resistant	Resistant to acetone, DMSO, dimethyl formahide, methanol, trifluoroacetic acid, and triethylamine.		Chemiluminescent Fluorescent Radioactive Chemifluorescent	
Binding Interaction	Hydrophobic	Other Applications		
Pore Size	0.2 μM		Amino Acid Analysis Protein Seguencing	
Total Protein Stain	Amido black Colloidal silver		Solid Phase Assay Systems	
Compatibility	Ponceau S India ink Colloidal gold Coomassie blue	Double-blotting Method	Yes	
		Strip and Re-probe	Yes	

	Product Name	Product #	Available Formats
		ENZ-KIT164	7cm x 9cm
PVDF Transfer Membrane	PVDF Iranster Membrane	ENZ-KIT165	10cm x 15cm

Prestained Protein Ladder

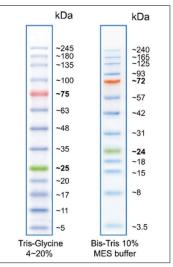
Protein Ladder for Use with Protein Gel Electrophoresis

- 3 μL or 5 μL per loading for **clear visualization** during electrophoresis on 15-well or 10-well mini-gel, respectively
- Three color protein standard with 13 prestained proteins
- Apply more for thicker (>1.5 mm) or larger gel

Our Protein ladder is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins. The ladder is supplied in gel loading buffer and is ready to use. Do not heat, dilute or add reducing agent before loading.

Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-glycine buffer).

Product Name	Product #	Range
Prestained Protein Ladder	ENZ-ACC131	3.5 – 245 kDa



Guide for Molecular Weight Estimation (kDa): Migration patterns of Prestained Protein Ladder in different electrophoresis conditions.

www.enzolifesciences.com/westernblot

Primary Antibodies for Western Blotting

We have over 2,000 antibodies validated for Western Blot. Download the catalog at www.enzolifesciences.com/westernblot

- Specific to bind your protein of interest or primary antibody
- Sensitive for high detection and low background
- Reliable for consistent results
- Validated for Western blot application and stated species

Antibodies for Loading Controls

Find the right loading control to ensure proper interpretation of your Western blots. The sample type will help you determine which target to use for your loading control.

- Check for equal transfer across membrane
- Ensure even loading between lanes
- Normalize and quantify your data

Sample Type	Target	MW (kDa)	Product Name	Product #
	Vinculin	124	Vinculin (human) monoclonal antibody (FB11)	BML-VG6110
	Alpha Tubulin	50	$\alpha\text{-}\text{Tubulin}$ Recombinant monoclonal antibody (F2C) (Mouse lgG1 λ)	ENZ-ABS609
			$\alpha\text{-}Tubulin$ Recombinant monoclonal antibody (F2C) (Rabbit IgG\lambda)	ENZ-ABS610
	Data Tubulia	50	$\beta\text{-Tubulin}$ Recombinant monoclonal antibody (S11B) (Mouse lgG1 λ)	ENZ-ABS613
Whole Cell & Cytoskeleton	Beta Tubulin		$\beta\text{-Tubulin}$ Recombinant monoclonal antibody (S11B) (Rabbit IgG\lambda)	ENZ-ABS614
	Actin	42	Actin polyclonal antibody	ADI-CSA-400
	Actin		Actin clonal antibody (S12-I)	ALX-810-001
	Beta Actin	42	β-Actin polyclonal antibody	ADI-905-733
	GAPDH	36	GAPDH monoclonal antibody (1D4)	ADI-CSA-335
	GAPDH		GAPDH monoclonal antibody (GA1R) (HRP conjugate)	ENZ-ABS276
		60	HSP60 monoclonal antibody (LK-1)	ADI-SPA-806
			HSP60 monoclonal antibody (LK-2)	ADI-SPA-807
Mitochondrial			HSP60 monoclonal antibody (Mab11-13)	ADI-SPA-829
			HSP60 polyclonal antibody	ADI-SPA-828
	VDAC1/Porin	31	Voltage-dependent anion channel polyclonal antibody	ALX-210-785
	Lamin B1	66	Laminin B chain (human) monoclonal antibody (DG10)	BML-LG6030
Nuclear	HDAC1	55	HDAC1 polyclonal antibody	BML-SA401
	PCNA	29	PCNA monoclonal antibody (SPM350)	ENZ-ABS794
Serum	Transferrin	77	Transferrin polyclonal antibody	ADI-VAP-EN004

Cell Lysis Buffers

Product Name	Product #	Size	Detergents
RIPA Lysis Buffer	ADI-80-1284	100 mL	1% Triton X-100, 1% sodium deoxycholate and 0.1% SDS
	ADI-80-1496	100 mL	1.2% Triton X-100, 0.5% sodium deoxycholate, and 0.1% SDS
	ADI-80-1134	100 mL	0.1% Triton X-100, 0.1% Tween 20 and 0.1% Hydorol M
Cell Lysis Buffer	ADI-80-1339	100 mL	0.5% Triton X-100 and 0.005% Tween 20
	ADI-80-1631	100 mL	1% Triton X-100

Blocking Solutions

Product Name	Product #	Size	Composition
BSA Solution	ADI-80-1928	50 mL	10% BSA in PBS

You may also be interested in:













Global Headquarters

ENZO LIFE SCIENCES, INC. 10 Executive Blvd. Farmingdale, NY 11735 Ph: 800.942.0430 Fax: 631.694.7501 info-usa@enzolifesciences.com European Sales Office ENZO LIFE SCIENCES (ELS) AG Industriestrasse 17 CH-4415 Lausen, Switzerland Ph: +41 61 926 8989 Fax: +41 61 926 8979 info-eu@enzolifesciences.com

LOCAL EUROPEAN OFFICES

Belgium, The Netherlands & Luxembourg

Enzo Life Sciences BVBA Avenue Louise 65/Box 11 1050 Bruxelles Belgium Ph: +32 3 466 0420 Fax: +32 3 808 7033 info-be@enzolifesciences.com

France

Enzo Life Sciences (ELS) AG Branch Office Lyon 13, avenue Albert Einstein, F-69100 Villeurbanne, France Ph: +33 472 440 655 Fax: +33 481 680 254 info-fr@enzolifesciences.com

Germany

Enzo Life Sciences GmbH Basler Strasse 57a DE-79540 Lörrach Germany Ph: +49 7621 5500 526 Fax: +49 7621 5500 527 info-de@enzolifesciences.com

UK & Ireland

Enzo Life Sciences (UK) Ltd. 1 Colleton Crescent Exeter EX2 4DG Ph: 0845 601 1488 (UK customers) Ph: +44 1392 825900 Fax: +44 1392 825910 info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: www.enzolifesciences.com

Put our experience to work for you!

Visit www.enzolifesciences.com/westernblot to learn about our innovative tools for Western blot analysis.