

ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number: 701285

Pub. No. MAN0007429 Rev. 1.00

Clonality: Monoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human MMP-3	Predicted Reactivity: Human	

Product Description

Matrix Metalloproteinase 3 (MMP-3) belongs to the peptidase M10A subfamily. It is secreted in its pro-protein form, and is activated by extracellular proteinase cleavage. MMP-3 is capable of binding to zinc and calcium ions, and has metallo-endopeptidase activity. The active enzyme degrades collagen, gelatin, fibronectin, and laminin. It is involved in normal cellular processes such as wound repair and tissue remodeling. In humans, the MMP-3 gene is located on chromosome 11.

Product Specifications

Immunogen:	Recombinant protein corresponding to amino acids 255–477 of human MMP-3
Alternate Names:	Stromelysin-1, Transin-1, STMY-1
Apparent MW:	~ 54 kDa
Gene ID:	4313
Protein Accession No.:	P08254
Sequence Identity:	Human
Sequence Homology:	Monkey, Rabbit, Horse, Pig
Clone/PAD:	45H6L22
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	MDA-MB-231 cells	2–3 µg/ mL
Indirect ELISA	Human	MDA-MB-231 cells	0.5 × 10 ⁻³ to 10 µg/mL
Immunocytochemistry	Human	U2OS cells	0.5 µg/mL
Flow cytometry	Human	HepG2 cells	1 × 10 ⁻⁶ cells to 1 µg/mL

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

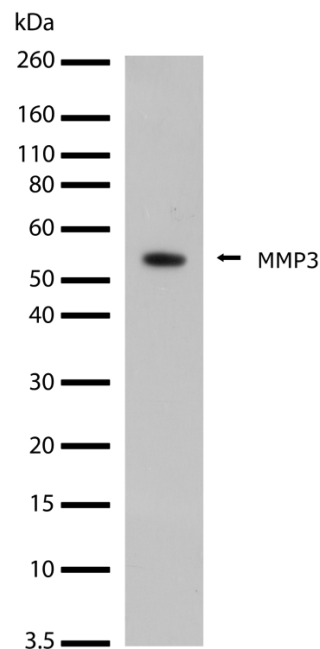


Figure 1 Western blot analysis of ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701285). Western blot analysis was performed on whole cell extracts from MDA-MB-231 cells. Endogenous levels of MMP-3 was detected at ~54 kDa using ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

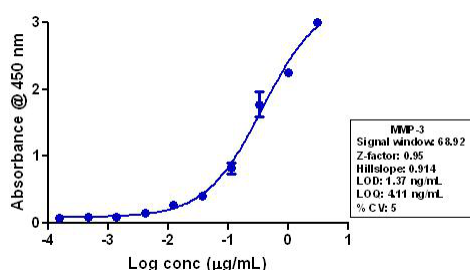


Figure 2 Indirect ELISA of ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701285).

Indirect ELISA was performed using various dilutions of ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody to detect endogenous MMP-3 protein in MDA-MB-231 lysate coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD and LOQ for the antibody was determined.

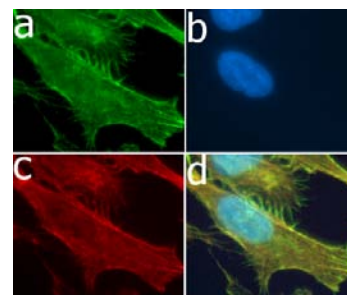


Figure 3 Immunocytochemistry analysis of ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701285).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained U2OS nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing cytoplasmic and membrane localization of MMP-3.

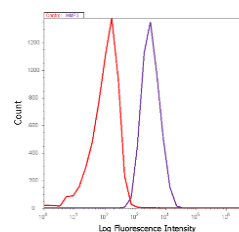


Figure 4 Flow cytometry analysis of HepG2 cells labelled with ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701285).

Fixed and permeabilized HepG2 cells were labeled with ABfinity™ MMP-3 Recombinant Rabbit Monoclonal Antibody, followed by Alexa Fluor 488® anti-rabbit IgG staining (right peak). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (left peak).

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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