

MMP7 Polyclonal Antibody

Catalog NumberPA1-9069

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	3-6 µg/mL
Type	Antibody	Western Blot (WB)	0.03-0.1 µg/mL
Immunogen	Synthetic peptide corresponding to the C terminus amino acids QKLYGKRSNSRKK.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is tested in Peptide ELISA: antibody detection limit dilution 64,000.

Background/Target Information

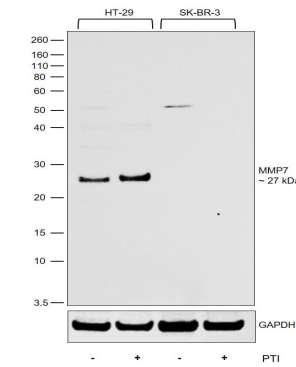
Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22. 3.

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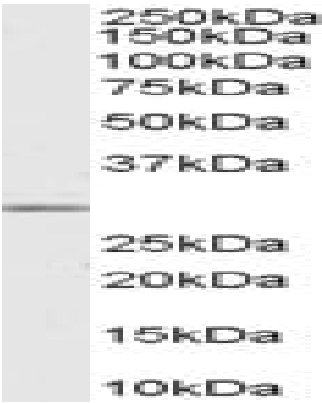
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MMP7 Antibody (PA1-9069) in WB

Western blot was performed using Anti-MMP7 Polyclonal Antibody (Product # PA1-9069) and a 27 kDa band corresponding to MMP7 was observed. Whole cell extracts (30 µg lysate) of HT-29 (Lane 1), HT-29 treated with Protein Transport Inhibitor (PTI) cocktail (1X, 4 hours), SK-BR-3 (Lane 3) and SK-BR-3 treated with Protein Transport Inhibitor (PTI) cocktail (1X, 4 hours) (Lane 4) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.03 µg/mL) and detected by chemiluminescence with Rabbit anti-Goat IgG Heavy Chain Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014,1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Relative expression was observed between HT-29 and SK-BR-3, a cell line which is reported to express MMP7 at very low levels.



MMP7 Antibody (PA1-9069) in WB

Western blot analysis of MMP7 using MMP7 Polyclonal Antibody (Product # PA1-9069) (0.03 µg/mL) in staining of Human Breast lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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