





MMP1 Polyclonal Antibody

Catalog Number PA1-29550 Product data sheet

Details		S
Size	50 μg	S
Host/Isotope	Rabbit / IgG	T
Class	Polyclonal	E
Туре	Antibody	In
Immunogen	Synthetic peptide corresponding to N-terminus of MMP1 (Human).	W In
Conjugate	Unconjugated	* Si
Form	Liquid	exp
Concentration	0.2 mg/mL	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	

Species Reactivity	
Species reactivity	Human
Tested Applications	Dilution *
ELISA (ELISA)	0.1-1 μg/mL
Immunoprecipitation (IP)	3-5 µg x 10^6 cells
Western Blot (WB)	0.5-2 μg/mL
Immunocytochemistry (ICC/IF)	5 μg/mL

^{*} 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.

Product specific information

Recommended positive controls: PMA induced A431 whole cell lysate. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

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. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

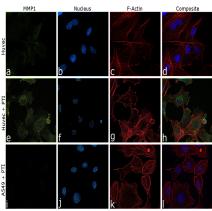
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSINE REALED FOR ROCKETOR POR REFUND FOR PORTOR PORT OF REFUND FOR PORTOR PORTO



MMP1 Antibody (PA1-29550)

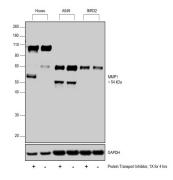


Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-MMP1 Polyclonal Antibody (Product # PA1-29550) shows increased expression of MMP1 in Huvec cells treated with Protein transport inhibitor in comparison to A549 treated with the same. Relative expression validation info.

Product Images For MMP1 Polyclonal Antibody

MMP1 Antibody (PA1-29550) in ICC/IF

Immunofluorescence analysis of MMP1 was performed using 70% confluent log phase HUVEC and A549 untreated and Protein Transport Inhibitor (PTI) treated cells. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with MMP1 Polyclonal Antibody (Product # PA1-29550) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034) at 1:2000 dilution for 45 minutes at room temperature (Panel a, e, i: Green). Nuclei (Panel b, f, j: Blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c, g, k: Red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d, h, I represents the merged image showing increased cytoplasmic localization of MMP1 in Huvec upon PTI treatment in comparison to untreated Huvec and also A549 treated with PTI which is reported as a low expressing model for A549 (Untreated A549 data not shown). The images were captured at 60X magnification.



MMP1 Antibody (PA1-29550) in WB

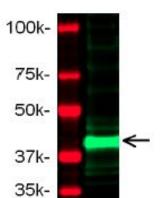
Western blot was performed using Anti-MMP1 Polyclonal Antibody (Product # PA1-29550) and a 54 kDa band corresponding to MMP1 was observed in Huvec treated with Protein Transport Inhibitor (PTI) and not in treated and untreated A549 and IMR32 along with an uncharacterized band (*) at ~50 kDa, ~60 kDa and ~95 kDa in the cell lines tested. Whole cell extracts (30 µg lysate) of Huvec treated with PTI (1X for 4hrs) (Lane 1), Huvec untreated (Lane 2), A549 treated with PTI (Lane 3), A549 untreated (Lane 4), IMR32 treated with PTI (Lane 5) and IMR32 untreated (Lane 6) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). 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 (0.5µg/ml) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Antibodies raised against internal domains of MMP1 recognize a non-specific band at ~95 kDa [10.1111/j.1432-1033.1996.0239u.x].

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The varranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample unsisted to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSIVE REACTOR FOR NOR-ON-CHAINED PRODUCTS DURING YEAR OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSIVE REACTOR FOR NOR-ON-CHAINED PRODUCTS DURING YEAR OF THE WARRANTY OF THE WA





MMP1 Antibody (PA1-29550) in WB

Western blot analysis of MMP1 in human MMP-1 over-expressing HEK293 cell lysate using a MMP1 polyclonal antibody (Product # PA1-29550).

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions to the product is subjected to from the product of the general type and quality of goods and does not represent that any product will confine the subject of the product of the general type and quality of goods and does not represent that any product will confine the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions that the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample functions to the product of the product is subjected to normal, proper and intended usage.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACE OR REFUND FOR THE RESULT OF (10) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (10) MISUSE, FAULT OR REGILGENCE OF OR BY BUYER, (11) USE or THE PRODUCTS IN A MANNIER FOR WHICH THEY WERE NOT DESIGNED, (10) (1) MIPOPOPE STORAGE AND HANDLING OF THE PRODUCTS. In Library Expressed stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

