

Rabbit anti-Human MMP28 Polyclonal Antibody | anti-MMP28 antibody

Anti-MMP28 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125788	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MMP28; Polyclonal Antibody; Anti-MMP28 Antibody; MMP25; UNQ1893/PRO4339; Matrix metalloproteinase-28; MMP-28; EC 3. 4. 24. -; Epilysin; matrix metalloproteinase 28; anti-MMP28 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MMP28 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-MMP28 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MMP28 recombinant protein (Position: F123-L505).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of A549 cells using anti-MMP28 antibody (AAA125788). Overlay histogram showing A549 cells stained with AAA125788 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MMP28 Antibody (AAA125788, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of MMP28 using anti-MMP28 antibody (AAA125788). MMP28 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-MMP28 Antibody (AAA125788) overnight at 4 degree C. DyLight[®]488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MMP28 using anti-MMP28 antibody (AAA125788). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates Lane 2: human A549 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-MMP28 antigen affinity purified polyclonal antibody (Catalog # AAA125788) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MMP28 at approximately 48KD. The expected band size for MMP28 is at 48KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP28 antibody	Matrix metalloproteinase 28 also known as epilysin is an enzyme that in humans is encoded by the MMP28 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix for both normal physiological processes, such as embryonic development, reproduction and tissue remodeling, and disease processes, such as asthma and metastasis. This gene encodes a secreted enzyme that degrades casein. Its expression pattern suggests that it plays a role in tissue homeostasis and in wound repair. Alternative splicing of this gene results in multiple transcript variants.
References	1. Illman, S. A., Keski-Oja, J., Lohi, J. Promoter characterization of the human and mouse epilysin (MMP-28) genes. Gene 275: 185-194, 2001. 2. Lohi, J., Wilson, C. L., Roby, J. D., Parks, W. C. Epilysin, a novel human matrix metalloproteinase (MMP-28) expressed in testis and keratinocytes and in response to injury. J. Biol. Chem. 276: 10134-10144, 2001. 3. Manicone, A. M., Birkland, T. P., Lin, M., Betsuyaku, T., van Rooijen, N., Lohi, J., Keski-Oja, J., Wang, Y., Skerrett, S. J., Parks, W. C. Epilysin (MMP-28) restrains early macrophage recruitment in Pseudomonas aeruginosa pneumonia. J. Immun. 182: 3866-3876, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13236530
NCBI GeneID	79148
NCBI Accession #	NP_077278.1
NCBI GenBank Nucleotide #	NM_024302.3
UniProt Accession #	Q9H239; Q96F04; Q96TE2
Molecular Weight	58,939 Da
NCBI Official Full Name	matrix metalloproteinase-28 isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 28
NCBI Official Symbol	MMP28
NCBI Official Synonym Symbols	MM28; MMP25; MMP-28; EPILYSIN
NCBI Protein Information	matrix metalloproteinase-28; putative MMP28 gene product; matrix metalloproteinase 28
UniProt Protein Name	Matrix metalloproteinase-28
UniProt Gene Name	MMP28
UniProt Synonym Gene Names	MMP25; MMP-28
UniProt Entry Name	MMP28_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mmp28-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125788>