

Rabbit anti-Human MMP19 Polyclonal Antibody | anti-MMP19 antibody

Anti-MMP19 Antibody Picoband

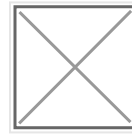
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19837	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MMP19; Polyclonal Antibody; Anti-MMP19 Antibody Picoband; Long-chain-fatty-acid--CoA ligase 5; docking protein 7; Protein Dok-7; Downstream of tyrosine kinase 7; DOK7; C4orf25; anti-MMP19 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Preferentially Expressed in skeletal muscle and heart. Present in thigh muscle, diaphragm and heart but not in the liver or spleen .
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MMP19 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human IHC: 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MMP19 recombinant protein (Position: L120-D437).
Subcellular Localization	Cell membrane, Peripheral membrane protein, Synapse
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Probable muscle-intrinsic activator of MUSK that plays an essential role in neuromuscular synaptogenesis. Acts in aneural activation of MUSK and subsequent acetylcholine receptor (AChR) clustering in myotubes. Induces autophosphorylation of MUSK.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 5. IF analysis of MMP19 using anti-MMP19 antibody (AAA19837). MMP19 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MMP19 Antibody (AAA19837) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MMP19 Antibody (AAA19837) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MMP19 Antibody (AAA19837) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MMP19 Antibody (AAA19837) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human 293T whole cell lysates, Lane 3: human Hela whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-MMP19 antigen affinity purified polyclonal antibody (#AAA19837) at 0.25ug/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 MMP19 at approximately 54 kDa. The expected band size for MMP19 is at 57 kDa.

Related Product Information for anti-MMP19 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MMP19 antibody	Primary Antibodies ; Adapters ; Protein Phosphorylation ; Receptor Tyrosine Kinases ; Signal Transduction ; Transmembrane ; Tyrosine Kinases
References	1. Cossins, J., Dudgeon, T. J., Catlin, G., Gearing, A J. H., Clements, J. M. Identification of MMP-18, a putative novel human matrix metalloproteinase. Biochem. Biophys. Res. Commun. 228: 494-498, 1996.2. Hazlewood, R. J., Roos, B. R., Solivan-Timpe, F., Honkanen, R. A., Jampol, L. M., Gieser, S. C., Meyer, K. J., Mullins, R. F., Kuehn, M. H., Scheetz, T. E., Kwon, Y. H., Alward, W. L. M., Stone, E. M., Fingert, J. H. Heterozygous triplication of upstream regulatory sequences leads to dysregulation of matrix metalloproteinase 19 in patients with cavitory optic disc anomaly. Hum. Mutat. 36: 369-378, 2015. 3. Moore, M., Salles, D., Jampol, L. M. Progressive optic nerve cupping and neural rim decrease in a patient with bilateral autosomal dominant optic nerve colobomas. Am. J. Ophthalmol. 129: 517-520, 2000.

NCBI GI #	442535505
NCBI GeneID	4327
NCBI Accession #	NP_001259030.1
NCBI GenBank Nucleotide #	NM_001272101.1
UniProt Accession #	Q99542; O15278; O95606; Q99580
Molecular Weight	57,357 Da
NCBI Official Full Name	matrix metalloproteinase-19 isoform 3 preproprotein

NCBI Official Synonym Full Names	matrix metalloproteinase 19
NCBI Official Symbol	MMP19
NCBI Official Synonym Symbols	MMP18; RASI-1
NCBI Protein Information	matrix metalloproteinase-19; matrix metalloproteinase-18; matrix metalloproteinase RASI; matrix metalloproteinase-beta19
UniProt Protein Name	Matrix metalloproteinase-19
UniProt Gene Name	MMP19
UniProt Synonym Gene Names	MMP18; RASI; MMP-19; MMP-18
UniProt Entry Name	MMP19_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/mmp19-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19837>