

Rabbit MMP16 Polyclonal Antibody | anti-MMP16 antibody

MMP16 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320855	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MMP16; Polyclonal Antibody; MMP16 Antibody; C8orf57; DKFZp761D112; Matrix metalloproteinase 16; Matrix metalloproteinase-16; Membrane type 3 matrix metalloproteinase; Membrane type matrix metalloproteinase 3; Membrane-type matrix metalloproteinase 3; Membrane-type-3 matrix metalloproteinase; MMP 16; MMP-16; MMP-X2; MMP16_HUMAN; MT-MMP 3; MT-MMP2; MT-MMP3; MT3-MMP; MT3MMP; MTMMP2; MTMMP3; Putative transmembrane protein C8orf57; anti-MMP16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MMP16 antibody detects endogenous levels of total MMP16
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	607
Applicable Applications for anti-MMP16 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MMP16
Subcellular Location	Cell Membrane. Localized at the cell surface of melanoma cells and secreted > extracellular space > extracellular matrix. Cell surface. Localized at the cell surface of melanoma cells.
Tissue Specificity	Expressed in heart, brain, placenta, ovary and small intestine. Isoform Short is found in the ovary.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA320855 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA320855 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on HepG2 cell lysate using MMP16 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP16 antibody

Description: Endopeptidase that degrades various components of the extracellular matrix, such as collagen type III and fibronectin. Activates progelatinase A. Involved in the matrix remodeling of blood vessels. Isoform short cleaves fibronectin and also collagen type III, but at lower rate. It has no effect on type I, II, IV and V collagen.
Subunit Structure: Interacts with CSPG4 through CSPG4 chondroitin sulfate glycosaminoglycan.
Post-translational Modifications: The precursor is cleaved by a furin endopeptidase.
Similarity: The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme. Belongs to the peptidase M10A family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13027802
NCBI GeneID	4325
NCBI Accession #	NP_005932.2
NCBI GenBank Nucleotide #	NM_005941.4
UniProt Accession #	P51512; Q14824; Q52H48; B2RAN7
Molecular Weight	Observed: 69 kDa Predicted: 70 kDa
NCBI Official Full Name	matrix metalloproteinase-16
NCBI Official Synonym Full Names	matrix metallopeptidase 16
NCBI Official Symbol	MMP16
NCBI Official Synonym Symbols	MMP-X2; C8orf57; MT-MMP2; MT-MMP3; MT3-MMP
NCBI Protein Information	matrix metalloproteinase-16
UniProt Protein Name	Matrix metalloproteinase-16
UniProt Gene Name	MMP16
UniProt Synonym Gene Names	MMP-16; MT-MMP 3; MTMMP3; MT3-MMP; MT3MMP

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/mmp16-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320855>