

Rabbit MMP16/Mt3 Mmp Polyclonal Antibody | anti-MMP16 antibody

Anti-MMP16/Mt3 Mmp Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124728	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

MMP16/Mt3 Mmp; Polyclonal Antibody; Anti-MMP16/Mt3 Mmp Picoband Antibody; Matrix metalloproteinase-16; MMP-16; 3.4.24.-; MMP-X2; Membrane-type matrix metalloproteinase 3; MT-MMP 3; MTMMP3; Membrane-type-3 matrix metalloproteinase; MT3-MMP; MT3MMP; MMP16; MMPX2; anti-MMP16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	457
Applicable Applications for anti-MMP16 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human MMP16 recombinant protein (Position: Y120-I296).
Subcellular Localization	Isoform Long: Cell membrane; 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.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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



IHC (Immunohistochemistry)

Figure 5. IHC analysis of MMP16 using anti-MMP16 antibody (AAA124728).MMP16 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MMP16 Antibody (AAA124728) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of MMP16 using anti-MMP16 antibody (AAA124728).MMP16 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MMP16 Antibody (AAA124728) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



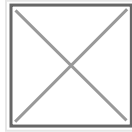
IHC (Immunohistochemisry)

Figure 3. IHC analysis of MMP16 using anti-MMP16 antibody (AAA124728).MMP16 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MMP16 Antibody (AAA124728) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of MMP16 using anti-MMP16 antibody (AAA124728).MMP16 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MMP16 Antibody (AAA124728) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MMP16 using anti-MMP16 antibody (AAA124728).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: mouse intestine tissue lysates,Lane 2: human SMMC-7721 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-MMP16 antigen affinity purified polyclonal antibody at 0.5 ug/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 1:10000 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 MMP16 at approximately 53KD. The expected band size for MMP16 is at 53KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP16 antibody	Description: The matrix metalloproteinase 16(MMP16) protein consists of 604 amino acids and has a characteristic MMP domain structure, which gene is mapped on human chromosome 8q21. Additionally, MMP16 has a C-terminal extension containing a potential transmembrane domain, similar to MMP14, MMP15, and MMP17. Furthermore, it is membrane-bound and is a member of the membrane-type MMPs that are a subclass in the MMP family since the other members lack a C-terminal transmembrane domain and are secreted as soluble forms. MMP16 is expressed as a 12-kb transcript in brain, placenta, heart, and some carcinoma cell lines, but is not detectably expressed in lung, kidney, liver, spleen, and muscle. Protein Function: 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. However, upon interaction with CSPG4, it may be involved in degradation and invasion of type I collagen by melanoma cells.
Product Categories/Family for anti-MMP16 antibody	Cardiovascular ; Angiogenesis ; Adhesion/ECM ; Matrix Metalloproteinases ; MMP ; Cancer ; Invasion/Microenvironment ; ECM Enzymes ; MMPS ; Extracellular Matrix ; Cell Biology ; Proteolysis/Ubiquitin ; Proteolytic Enzymes ; Metalloprotease

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	52,515 Da

NCBI Official Full Name	matrix metalloproteinase-16
NCBI Official Synonym Full Names	matrix metalloproteinase 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-mt3-mmp-antibody-western-blot-immunohistochemistry-elisa/124728>