

Anti-MMP16 Antibody

Catalog # ABO10578

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P51512
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Matrix metalloproteinase-16(MMP16) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4325
Other Names	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
Calculated MW	69521
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Human, Rat, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Isoform Long: Cell membrane ; Single-pass type I membrane protein ; Extracellular side . 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.
Source	Eukaryota
Protein Name	Matrix metalloproteinase-16(MMP-16)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MMP16(582-598aa, YTVFQFKRKGTPRHILY), identical to the related rat and mouse sequences.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the peptidase M10A family.

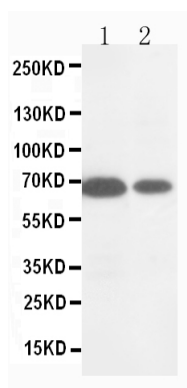
Protein Information

Name	MMP16 (HGNC:7162)
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.
Cellular Location	[Isoform Long]: Cell membrane; Single-pass type I membrane protein; Extracellular side. Note=Localized at the cell surface of melanoma cells
Tissue Location	Expressed in heart, brain, placenta, ovary and small intestine. Isoform Short is found in the ovary

Background

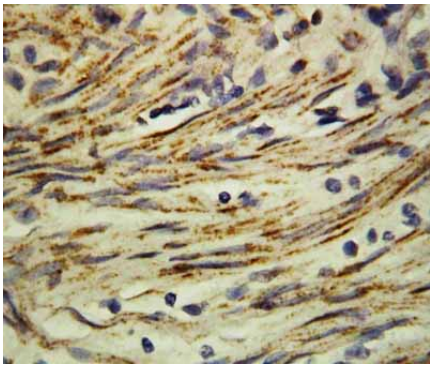
The matrix metalloproteinase 16(MMP16) protein consists of 604 amino acids and has a characteristic MMP domain structure, which gene is mapped on human chromosome 8q21. Additionally, MMP16 has a C-terminal extension containing a potential transmembrane domain, similar to MMP14 , MMP15 , and MMP17. Furthermore, 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.

Images



Anti-MMP16 antibody, ABO10578, Western blotting
Lane 1: HELA Cell Lysate Lane 2: COLO320 Cell Lysate

Anti-MMP16 antibody, ABO10578, IHC(P) IHC(P): Human Rectal Cancer Tissue



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