

MMP14 Antibody (aa160-173)
Rabbit Polyclonal Antibody
Catalog # ALS12778**Specification**

MMP14 Antibody (aa160-173) - Product Information

Application	IHC
Primary Accession	P50281
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66kDa KDa

MMP14 Antibody (aa160-173) - Additional Information**Gene ID** 4323**Other Names**

Matrix metalloproteinase-14, MMP-14, 3.4.24.80, MMP-X1, Membrane-type matrix metalloproteinase 1, MT-MMP 1, MTMMP1, Membrane-type-1 matrix metalloproteinase, MT1-MMP, MT1MMP, MMP14

Reconstitution & Storage

Store at 2°C to 8°C degrees. Do not freeze.

Precautions

MMP14 Antibody (aa160-173) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP14 Antibody (aa160-173) - Protein Information**Name** MMP14**Function**

Endopeptidase that degrades various components of the extracellular matrix such as collagen (PubMed:[8015608](http://www.uniprot.org/citations/8015608)). Essential for pericellular collagenolysis and modeling of skeletal and extraskelatal connective tissues during development (By similarity). Activates progelatinase A/MMP2, thereby acting as a positive regulator of cell growth and migration (PubMed:[22065321](http://www.uniprot.org/citations/22065321), PubMed:[8015608](http://www.uniprot.org/citations/8015608)). Involved in the formation of the fibrovascular tissues in association with pro-MMP2 (PubMed:[12714657](http://www.uniprot.org/citations/12714657), PubMed:[22065321](http://www.uniprot.org/citations/22065321)). May be involved in actin cytoskeleton reorganization by cleaving PTK7 (PubMed:[20837484](http://www.uniprot.org/citations/20837484)). Acts as a regulator of Notch signaling by mediating cleavage and inhibition of DLL1 (PubMed:[21572390](http://www.uniprot.org/citations/21572390)). Cleaves

ADGRB1 to release vasculostatin-40 which inhibits angiogenesis (PubMed:22330140). Acts as a negative regulator of the GDF15-GFRAL aversive response by mediating cleavage and inactivation of GFRAL (PubMed:35177851).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Melanosome. Cytoplasm Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). Forms a complex with BST2 and localizes to the cytoplasm (PubMed:17081065)

Tissue Location

Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.

Volume

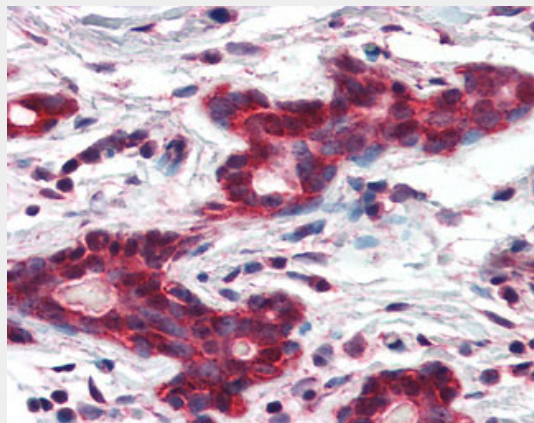
250 µl

MMP14 Antibody (aa160-173) - Protocols

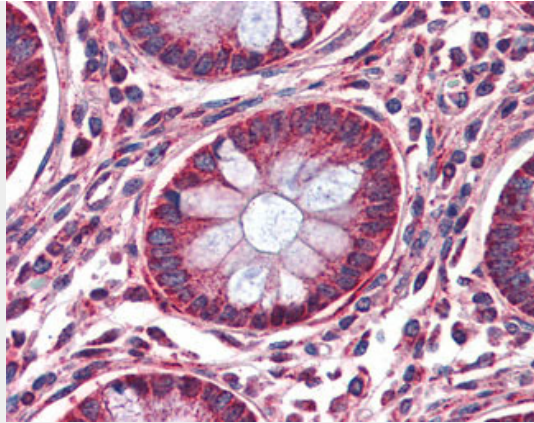
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

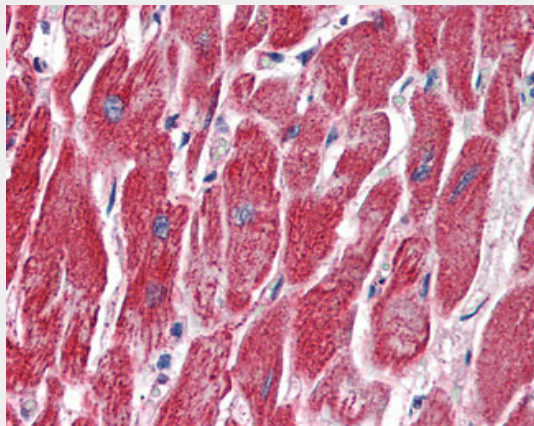
MMP14 Antibody (aa160-173) - Images



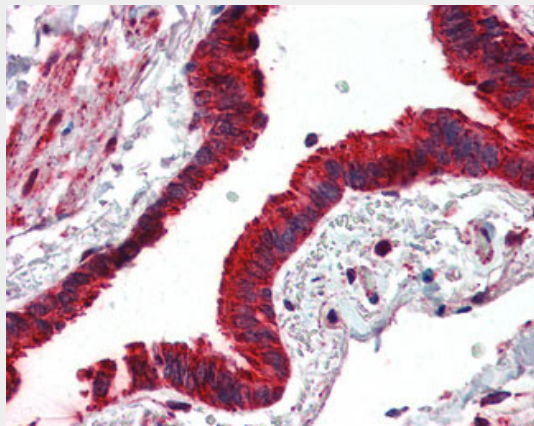
Anti-MMP14 antibody IHC of human breast.



Anti-MMP14 antibody IHC of human colon.



Anti-MMP14 antibody IHC of human heart.



Anti-MMP14 antibody IHC of human lung, respiratory epithelium.

MMP14 Antibody (aa160-173) - Background

Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton reorganization by cleaving PTK7. Acts as a positive regulator of cell growth and migration via activation of MMP15. Involved in the formation of the fibrovascular tissues in association with pro-MMP2.

MMP14 Antibody (aa160-173) - References

Sato H.,et al.Nature 370:61-65(1994).
Takino T.,et al.Gene 155:293-298(1995).
Okada A.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:2730-2734(1995).
Will H.,et al.Eur. J. Biochem. 231:602-608(1995).
Luo G.-X.,et al.Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.