

**MMP14 Antibody**  
Rabbit mAb  
Catalog # AP90283

## Specification

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### MMP14 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P50281</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	65894 Da

### MMP14 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MMP14
Description	MMP14 Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Belongs to the peptidase M10A family.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### MMP14 Antibody - 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 extraskeletal 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:[22065321](http://www.uniprot.org/citations/22065321)).

<http://www.uniprot.org/citations/20837484> target="\_blank">20837484</a>). Acts as a regulator of Notch signaling by mediating cleavage and inhibition of DLL1 (PubMed:<a href="http://www.uniprot.org/citations/21572390" target="\_blank">21572390</a>). Cleaves ADGRB1 to release vasculostatin-40 which inhibits angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/22330140" target="\_blank">22330140</a>). Acts as a negative regulator of the GDF15-GFRAL aversive response by mediating cleavage and inactivation of GFRAL (PubMed:<a href="http://www.uniprot.org/citations/35177851" target="\_blank">35177851</a>).

#### 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

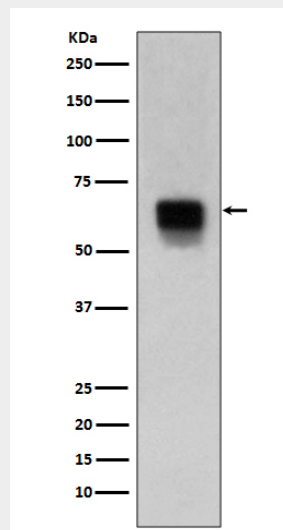
Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.

### MMP14 Antibody - 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 - Images



Western blot analysis of MMP14 expression in human spleen lysate.