

**MMP14 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51350****Specification**

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**MMP14 Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P50281</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>53 KDa</b>

**MMP14 Antibody - Additional Information****Gene ID** 4323**Other Names**

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

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**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: [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](http://www.uniprot.org/citations/22330140)). 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**

### **MMP14 Antibody - 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.

### **MMP14 Antibody - 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.