

**MMP14 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3942a**Specification**

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**MMP14 Antibody (internal region) - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P50281</a>
Other Accession	<a href="#">NP_004986.1</a> , <a href="#">4323</a> , <a href="#">17387 (mouse)</a> , <a href="#">81707 (rat)</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse, Rat, Pig, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>65894</b>

**MMP14 Antibody (internal region) - 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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MMP14 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**MMP14 Antibody (internal region) - Protein Information****Name** MMP14**Function**

Endopeptidase that degrades various components of the extracellular matrix such as collagen (PubMed:&lt;a href="http://www.uniprot.org/citations/8015608" target="\_blank"&gt;8015608&lt;/a&gt;). 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:<a href="http://www.uniprot.org/citations/22065321" target="\_blank">22065321</a>, PubMed:<a href="http://www.uniprot.org/citations/8015608" target="\_blank">8015608</a>). Involved in the formation of the fibrovascular tissues in association with pro-MMP2 (PubMed:<a href="http://www.uniprot.org/citations/12714657" target="\_blank">12714657</a>, PubMed:<a href="http://www.uniprot.org/citations/22065321" target="\_blank">22065321</a>). May be involved in actin cytoskeleton reorganization by cleaving PTK7 (PubMed:<a href="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.

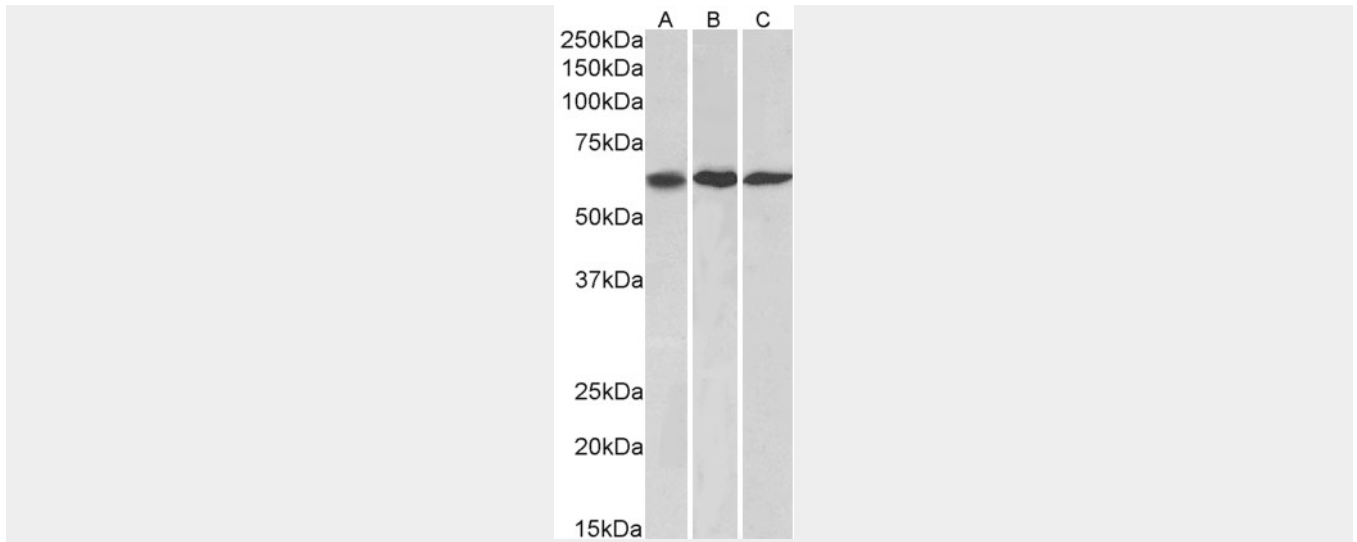
### MMP14 Antibody (internal region) - Protocols

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 (internal region) - Images





AF3942a (1  $\mu\text{g/ml}$ ) staining of NIH3T3, (A) A549 (B) and HeLa (C) lysates (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **MMP14 Antibody (internal region) - References**

Survivin gene expression in endometriosis. Ueda M, Yamashita Y, Takehara M, Terai Y, Kumagai K, Ueki K, Kanda K, Yamaguchi H, Akise D, Hung YC, Ueki M. *J Clin Endocrinol Metab.* 2002 Jul;87(7):3452-9. PMID: 12107265