

MMP16 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6200a**Specification**

MMP16 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P51512](#)
Other Accession [NP_072086](#)

MMP16 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4325

Other Names

Matrix metalloproteinase-16, MMP-16, 3424-, MMP-X2, Membrane-type matrix metalloproteinase 3, MT-MMP 3, MTMMP3, Membrane-type-3 matrix metalloproteinase, MT3-MMP, MT3MMP, MMP16, MMPX2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6200a](/product/products/AP6200a) was selected from the N-term region of human MMP16. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MMP16 Antibody (N-term) Blocking Peptide - 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

MMP16 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MMP16 Antibody (N-term) Blocking Peptide - Images**MMP16 Antibody (N-term) Blocking Peptide - Background**

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene for MMP16 produces two transcripts, which encode a membrane-bound form and a soluble form of the protein. Both forms of the protein activate MMP2 by cleavage. This gene was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16.

MMP16 Antibody (N-term) Blocking Peptide - References

Jung, M., et al., Prostate 55(2):89-98 (2003). Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999). Matsumoto, S., et al., Biochim. Biophys. Acta 1354(2):159-170 (1997). Sato, H., et al., Genomics 39(3):412-413 (1997). Mattei, M.G., et al., Genomics 40(1):168-169 (1997).