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MMP16 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13713b

Specification

MMP16 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P51512
Other Accession	NP_005932.2, NP_072086.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**69521**
Antigen Region	**519-548**

MMP16 Antibody (C-term) - 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
This MMP16 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 519-548 amino acids from the C-terminal region of human MMP16.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
MMP16 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP16 Antibody (C-term) - 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

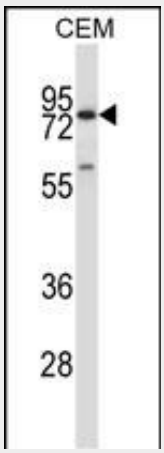
Tissue Location
Expressed in heart, brain, placenta, ovary and small intestine. Isoform Short is found in the ovary

MMP16 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP16 Antibody (C-term) - Images



MMP16 Antibody (C-term) (Cat. #AP13713b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MMP16 antibody detected the MMP16 protein (arrow).

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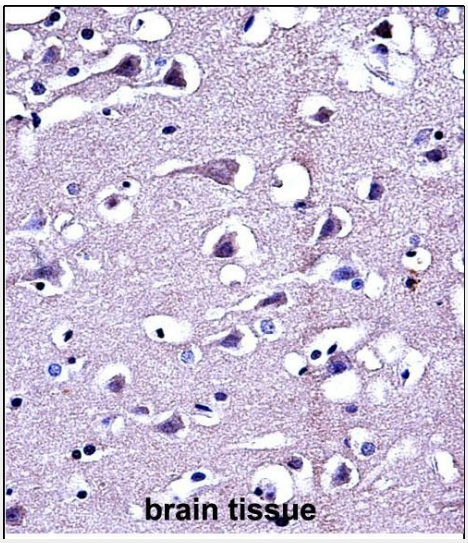

MMP16 Antibody (C-term) (Cat. #AP13713b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MMP16 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

MMP16 Antibody (C-term) - Background

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.

MMP16 Antibody (C-term) - Citations

- MMP16 promotes tumor metastasis and indicates poor prognosis in hepatocellular carcinoma.
- High expression of matrix metalloproteinases 16 is associated with the aggressive malignant behavior and poor survival outcome in colorectal carcinoma.