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MMP19 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6202a

Specification

MMP19 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q99542
Other Accession	NP_002420
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**57357**
Antigen Region	**344-373**

MMP19 Antibody (C-term) - Additional Information

Gene ID 4327

Other Names
Matrix metalloproteinase-19, MMP-19, 3424-, Matrix metalloproteinase RASI, Matrix metalloproteinase-18, MMP-18, MMP19, MMP18, RASI

Target/Specificity
This MMP19 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 344-373 amino acids from the C-terminal region of human MMP19.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
MMP19 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP19 Antibody (C-term) - Protein Information

Name MMP19

Synonyms MMP18, RASI

Function Endopeptidase that degrades various components of the extracellular matrix, such as aggrecan and cartilage oligomeric matrix protein (comp), during development, haemostasis and pathological conditions (arthritic disease). May also play a role in neovascularization or angiogenesis. Hydrolyzes collagen type IV, laminin, nidogen, nascin-C isoform, fibronectin, and type I gelatin.

Cellular Location
Secreted, extracellular space, extracellular matrix

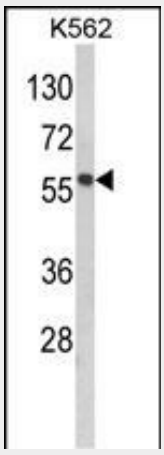
Tissue Location
Expressed in mammary gland, placenta, lung, pancreas, ovary, small intestine, spleen, thymus, prostate, testis colon, heart and blood vessel walls. Not detected in brain and peripheral blood leukocytes. Also expressed in the synovial fluid of normal and rheumatoid patients (PubMed:8920941)

MMP19 Antibody (C-term) - Protocols

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

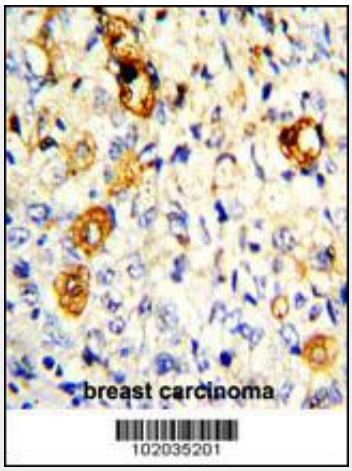
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP19 Antibody (C-term) - Images

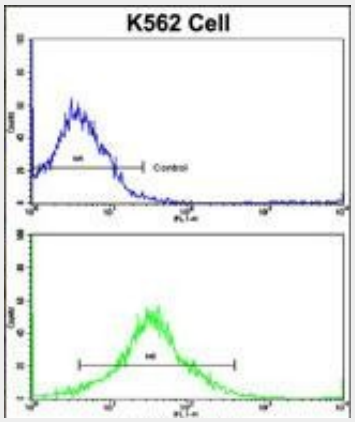


Western blot analysis of hMMP19-R359 (Cat. #AP6202a) in K562 cell line lysates (35ug/lane). MMP19 (arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human breast carcinoma with MMP19 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of K562 cells using MMP19 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MMP19 Antibody (C-term) - 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. The function of MMP19 has not been determined. This gene was previously referred to as MMP18 but has been renamed matrix metalloproteinase 19 (MMP19).

MMP19 Antibody (C-term) - References

Sadowski, T., et al., Mol. Biol. Cell 14(11):4569-4580 (2003).
Impola, U., et al., Int. J. Cancer 103(6):709-716 (2003).
Mauch, S., et al., J. Immunol. 168(3):1244-1251 (2002).
Stracke, J.O., et al., J. Biol. Chem. 275(20):14809-14816 (2000).
Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999).

MMP19 Antibody (C-term) - Citations

- High expression of MMP19 is associated with poor prognosis in patients with colorectal cancer.

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