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MMP19 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6202a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99542
Other Accession	NP_002420
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB02035
Calculated MW	57357
Antigen Region	344-373

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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)

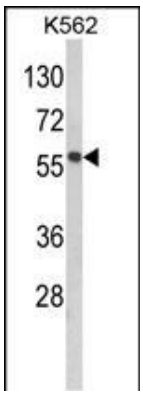
Background

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).

References

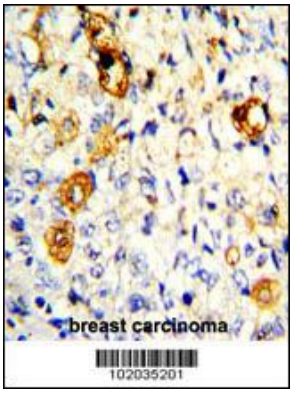
Sadowski, T., et al., Mol. Biol. Cell 14(11):4569-4580 (2003).
Impola, U., et al., Int. J. Cancer 103(6):709-716 (2003).
Mauch, S., et al., J. Immunol. 168(3):1244-1251 (2002).
Stracke, J.O., et al., J. Biol. Chem. 275(20):14809-14816 (2000).
Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999).

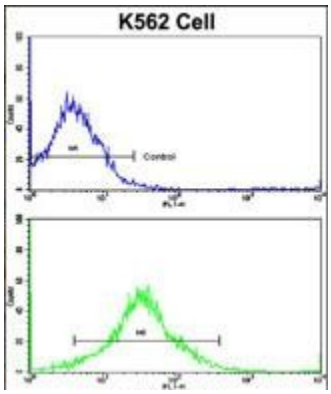
Images



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

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.

Citations

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