

MMP-19 Polyclonal Antibody

Catalog No :	YT2797
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	MMP-19
Gene Name :	MMP19
Protein Name :	Matrix metalloproteinase-19
Human Gene Id :	4327
Human Swiss Prot No :	Q99542
Mouse Gene Id :	58223
Mouse Swiss Prot No :	Q9JHI0
Immunogen :	The antiserum was produced against synthesized peptide derived from human MMP-19. AA range:11-60
Specificity :	MMP-19 Polyclonal Antibody detects endogenous levels of MMP-19 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 57kD

Cell Pathway : Angiogenesis

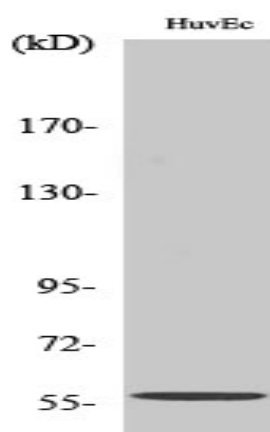
Background : This gene encodes a member of a family of proteins that are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded protein is secreted as an inactive proprotein, which is activated upon cleavage by extracellular proteases. Alternative splicing results in multiple transcript variants for this gene. [provided by RefSeq, Jan 2013],

Function : alternative products:Additional isoforms seem to exist,catalytic activity:Cleaves aggrecan at the 360-Ser-|-Phe-361 site.,cofactor:Binds 1 zinc ion per subunit.,cofactor:Calcium.,disease:May play a role in pathological processes participating in rheumatoid arthritis (RA)-associated joint tissue destruction. Autoantigen anti-MMP19 are frequent in RA patients.,domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,enzyme regulation:Strongly inhibited by TIMP-2, TIMP-3 and TIMP-4, while TIMP-1 is less efficient.,function:Endopeptidase that degrades various components of the extracellular matrix, such as aggrecan and cartilage oligomeric matrix protein (comp), during development, haemostasis and pathological conditi

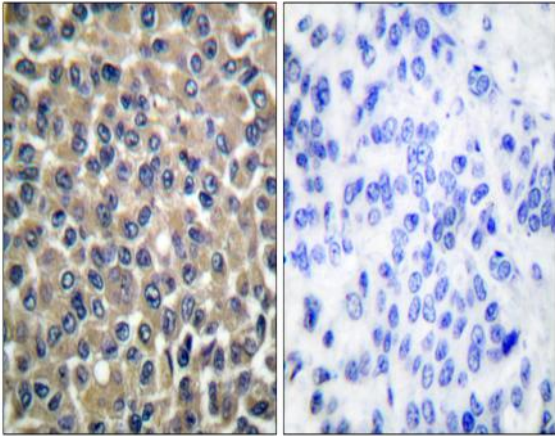
Subcellular Location : Secreted, extracellular space, extracellular matrix .

Expression : 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).

Products Images



Western Blot analysis of various cells using MMP-19 Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MMP-19 Antibody. The picture on the right is blocked with the synthesized peptide.