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## Cleaved-MMP-1 22k (F100) Polyclonal Antibody

Catalog No	YP-Ab-02301
lsotype	lgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	MMP1
Protein Name	Interstitial collagenase
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP1. AA range:81-130
Specificity	Cleaved-MMP-1 22k (F100) Polyclonal Antibody detects endogenous levels of fragment of activated MMP-1 22k protein resulting from cleavage adjacent to F100.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MMP1; CLG; Interstitial collagenase; Fibroblast collagenase; Matrix metalloproteinase-1; MMP-1
Observed Band	19kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Fibroblast,Ovary,Synovial cell,Synovial membrane,Thyroid,
Function	catalytic activity:Cleavage of the triple helix of collagen at about three-quarters of the length of the molecule from the N-terminus, at 775-Gly- -Ile-776 in the alpha-1(I) chain. Cleaves synthetic substrates and alpha-macroglobulins at bonds where P1' is a hydrophobic residue.,cofactor:Binds 2 zinc ions per subunit.,cofactor:Binds 4 calcium ions per subunit.,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.,domain:There are two distinct domains in this protein; the catalytic N-terminal, and the C-terminal which is involved in substrate specificity and in binding TIMP (tissue inhibitor of metalloproteinases).,enzyme regulation:Can be activated without removal of the activation peptide.,function:Cleaves col

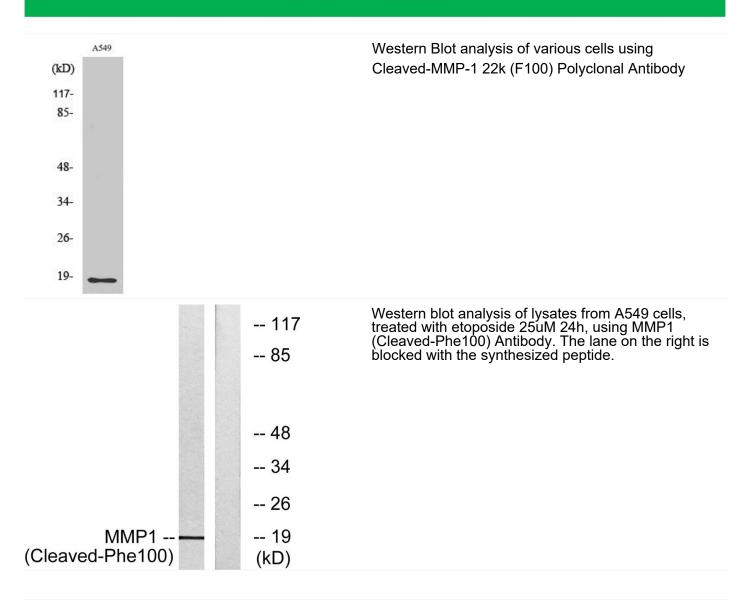


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Backgroundmatrix metallopeptidase 1(MMP1) Homo sapiens<br/>member of the peptidase M10 family of matrix metalloproteinases (MMPs).<br/>Proteins in this family are involved in the breakdown of extracellular matrix in<br/>normal physiological processes, such as embryonic development, reproduction,<br/>and tissue remodeling, as well as in disease processes, such as arthritis and<br/>metastasis. The encoded preproprotein is proteolytically processed to generate<br/>the mature protease. This secreted protease breaks down the interstitial<br/>collagens, including types I, II, and III. The gene is part of a cluster of MMP genes<br/>on chromosome 11. Mutations in this gene are associated with chronic obstructive<br/>pulmonary disease (COPD). Alternative splicing results in multiple transcript<br/>variants, at least one of which encodes an isoform that is proteolytically<br/>processed. [provided by RefSeq, Jan 2016],matters needing<br/>attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For<br/>more information, please consult technical personnel.





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