

Anti-MMP-12 antibody



Description	Rabbit polyclonal to MMP-12.
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Model	STJ94160
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human MMP-12.
Immunogen Region	C-terminal
Gene ID	4321
Gene Symbol	MMP12
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	MMP-12 Polyclonal Antibody detects endogenous levels of MMP-12 protein.
Tissue Specificity	Found in alveolar macrophages but not in peripheral blood monocytes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Macrophage metalloelastase MME Macrophage elastase ME hME Matrix metalloproteinase-12 MMP-12
Molecular Weight	48 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7158 OMIM:601046
Alternative Names	Macrophage metalloelastase MME Macrophage elastase ME hME Matrix metalloproteinase-12 MMP-12
Function	May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3.
Sequence and Domain Family	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.
Cellular Localization	Secreted, extracellular space, extracellular matrix

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