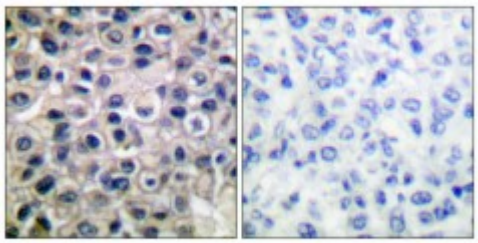
Anti-MMP-14 antibody



Description	Rabbit polyclonal to MMP-14.

Model	STJ94275
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human MMP-14
Immunogen Region	440-520 aa, C-terminal
Gene ID	4323
Gene Symbol	MMP14
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:10000
Specificity	MMP-14 Polyclonal Antibody detects endogenous levels of MMP-14 protein.
Tissue Specificity	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Matrix metalloproteinase-14 MMP-14 MMP-X1 Membrane-type matrix metalloproteinase 1 MT-MMP 1 MTMMP1 Membrane-type-1 matrix metalloproteinase MT1-MMP MT1MMP
Molecular Weight	65 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:7160OMIM:277950
Alternative Names	Matrix metalloproteinase-14 MMP-14 MMP-X1 Membrane-type matrix metalloproteinase 1 MT-MMP 1 MTMMP1 Membrane-type-1 matrix metalloproteinase MT1-MMP MT1MMP
Function	Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton reorganization by cleaving PTK7. Acts as a positive regulator of cell growth and migration via activation of MMP15. Involved in the formation of the fibrovascular tissues in association with pro-MMP2.
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	Membrane Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Forms a complex with BST2 and localizes to the cytoplasm.
Post-translational Modifications	The precursor is cleaved by a furin endopeptidase. Tyrosine phosphorylated by PKDCC/VLK.