

Anti-MMP24 antibody



Description	Unconjugated Rabbit polyclonal to MMP24
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Model	STJ192400
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human MMP24 protein.
Immunogen Region	520-600aa
Gene ID	10893
Gene Symbol	MMP24
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	MMP24 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Predominantly expressed in brain, kidney, pancreas and lung. Overexpressed in a series of brain tumors, including astrocytomas and glioblastomas.
Purification	MMP24 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Matrix metalloproteinase-24 MMP-24 Membrane-type matrix metalloproteinase 5 MT-MMP 5 MTMMP5 Membrane-type-5 matrix metalloproteinase MT5-MMP MT5MMP Processed matrix metalloproteinase-24

Molecular Weight	70 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7172 OMIM:604871
Alternative Names	Matrix metalloproteinase-24 MMP-24 Membrane-type matrix metalloproteinase 5 MT-MMP 5 MTMMP5 Membrane-type-5 matrix metalloproteinase MT5-MMP MT5MMP Processed matrix metalloproteinase-24
Function	Metalloprotease that mediates cleavage of N-cadherin (CDH2) and acts as a regulator of neuro-immune interactions and neural stem cell quiescence. Involved in cell-cell interactions between nociceptive neurites and mast cells, possibly by mediating cleavage of CDH2, thereby acting as a mediator of peripheral thermal nociception and inflammatory hyperalgesia. Key regulator of neural stem cells quiescence by mediating cleavage of CDH2, affecting CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone, leading to modulate their quiescence. May play a role in axonal growth. Able to activate progelatinase A. May also be a proteoglycanase involved in degradation of proteoglycans, such as dermatan sulfate and chondroitin sulfate proteoglycans. Cleaves partially fibronectin, but not collagen type I, nor laminin .
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.; The PDZ-binding motif (also named EWV motif) is required for interaction with PDZ domains of APBA3 and recycling through the trans-Golgi network.
Cellular Localization	Matrix metalloproteinase-24: Cell membrane Golgi apparatus, trans-Golgi network membrane. Recycled back to the plasma membrane through the trans-Golgi network via interaction with APBA3. Processed matrix metalloproteinase-24: Secreted, extracellular space, extracellular matrix. Also shed from cell surface as soluble proteinase, by a proteolytic cleavage.
Post-translational Modifications	Cleaved by a furin endopeptidase in the trans-Golgi network.