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KD-Validated Anti-Matrix metallopeptidase 14 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1260

Product Information

Application	WB, FC
Primary Accession	P50281
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB2695
Calculated MW	65894
Gene Name	MMP14
Aliases	MMP14; Matrix Metallopeptidase 14; MT1-MMP; Matrix Metallopeptidase 14 (Membrane-Inserted); Membrane-Type-1 Matrix Metalloproteinase; Membrane Type 1 Metalloprotease; Matrix Metalloproteinase-14; EC 3.4.24.80; MT-MMP 1; MMP-14; MMP-X1; MT1MMP; MTMMP1; Matrix Metalloproteinase 14 (Membrane-Inserted); Membrane Type 1-Matrix Metalloproteinase; Membrane-Type Matrix Metalloproteinase 1; EC 3.4.24; MT-MMP; WNCHRS
Immunogen	A synthesized peptide derived from human MMP14

Additional Information

Gene ID	4323
Other Names	Matrix metalloproteinase-14, MMP-14, 3.4.24.80, MMP-X1, Membrane-type matrix metalloproteinase 1, MT-MMP 1, MTMMP1, Membrane-type-1 matrix metalloproteinase, MT1-MMP, MT1MMP, MMP14

Protein Information

Name	MMP14
Function	Endopeptidase that degrades various components of the extracellular matrix such as collagen (PubMed:8015608). Essential for pericellular collagenolysis and modeling of skeletal and extraskeletal connective tissues during development (By similarity). Activates progelatinase A/MMP2, thereby acting as a positive regulator of cell growth and migration (PubMed:22065321, PubMed:8015608). Involved in the formation of the fibrovascular tissues in association with pro-MMP2 (PubMed:12714657, PubMed:22065321). May be involved in actin cytoskeleton reorganization by cleaving PTK7 (PubMed:20837484). Acts as a regulator of Notch signaling by mediating cleavage and inhibition of DLL1 (PubMed:21572390). Cleaves ADGRB1 to release vasculostatin-40 which inhibits angiogenesis (PubMed:22330140). Acts

	as a negative regulator of the GDF15-GFRAL aversive response by mediating cleavage and inactivation of GFRAL (PubMed:35177851).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Melanosome. Cytoplasm Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). Forms a complex with BST2 and localizes to the cytoplasm (PubMed:17081065)
Tissue Location	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.

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