

KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1260**Specification****KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P50281
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 66 kDa , observed, 65 kDa
Gene Name	KDa MMP14
Aliases	MMP14; Matrix Metalloproteinase 14; MT1-MMP; Matrix Metalloproteinase 14 (Membrane-Inserted); Membrane-Type-1 Matrix Metalloproteinase; Membrane Type 1 Metalloproteinase; 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; WNCNRS
Immunogen	A synthesized peptide derived from human MMP14

KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody - 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	

KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody - 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

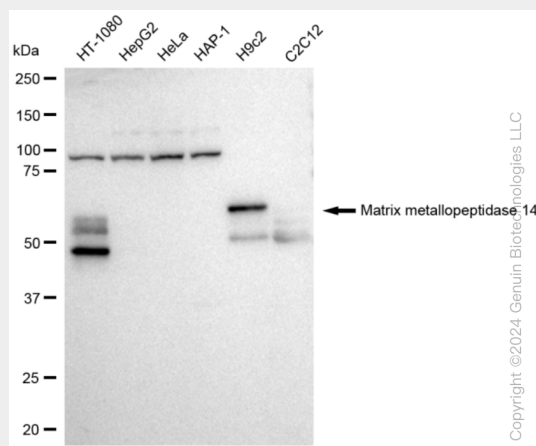
Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.

KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

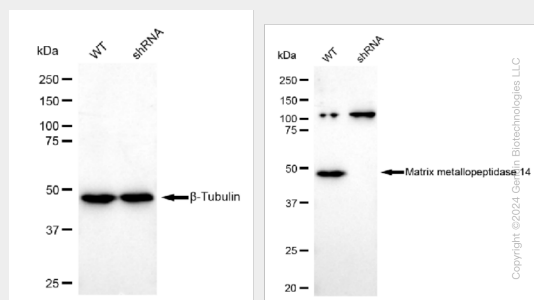
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Matrix metalloproteinase 14 Rabbit Monoclonal Antibody - Images

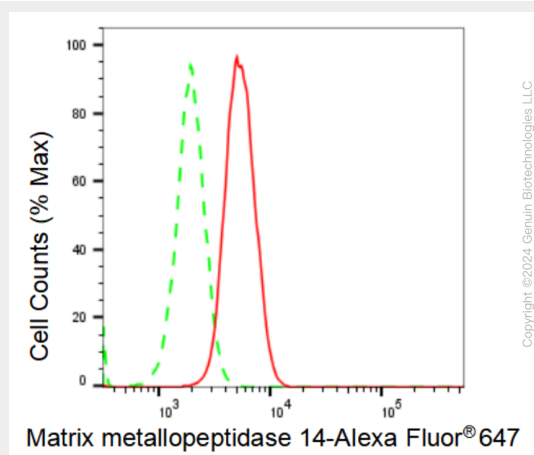


Western blotting analysis using anti-Matrix metalloproteinase 14 antibody (Cat#AGI1260). Total

cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Matrix metalloproteinase 14 antibody (Cat#AGI1260, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Matrix metalloproteinase 14 antibody (Cat#AGI1260). Matrix metalloproteinase 14 expression in wild type (WT) and matrix metalloproteinase 14 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Matrix metalloproteinase 14 antibody (Cat#AGI1260, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Matrix metalloproteinase 14 expression in H9c2 cells using Matrix metalloproteinase 14 antibody (Cat#AGI1260, 1:2,000). Green, isotype control; red, Matrix metalloproteinase 14.