

Rabbit MMP14 Polyclonal Antibody | anti-MMP14 antibody

MMP14 Antibody (N-term)

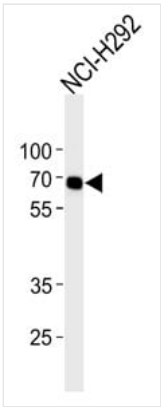
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284118	Rabbit	Human, Mouse Predicted: Bovine, Pig, Rat	ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

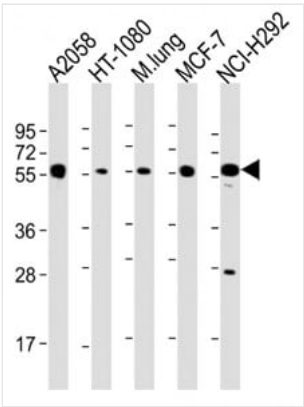
MMP14; Polyclonal Antibody; MMP14 Antibody (N-term); Matrix metalloproteinase-14; MMP-14; MMP-X1; Membrane-type matrix metalloproteinase 1; MT-MMP 1; MTMMP1; Membrane-type-1 matrix metalloproteinase; MT1-MMP; MT1MMP; anti-MMP14 antibody

PRODUCT SPECIFICATIONS

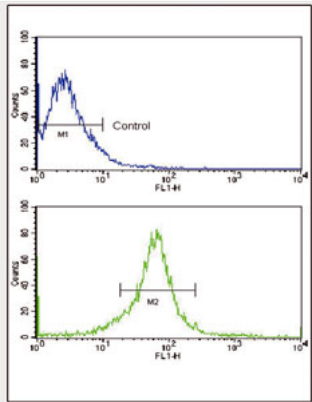
Host	Rabbit
Reactivity	Human, Mouse Predicted: Bovine, Pig, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MMP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-174 amino acids from the N-terminal region of human MMP14.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	145-174
Sequence Length	582
Applicable Applications for anti-MMP14 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Antigen Source	HUMAN
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.
Cellular Location	Membrane; Single-pass type I membrane protein. Melanosome. Cytoplasm Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Forms a complex with BST2 and localizes to the cytoplasm
Tissue Location	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



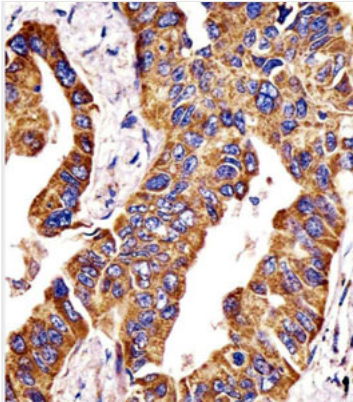
WB (Western Blot)
MMP14 Antibody (R160) (Cat.# AAA284118) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the MMP14 antibody detected the MMP14 protein (arrow).



WB (Western Blot)
All lanes : Anti-MMP14 Antibody (R160) at 1:2000 dilution:Lane 1: A2058 whole cell lysateLane 2: HT-1080 whole cell lysateLane 3: mouse lung lysateLane 4: MCF-7 whole cell lysateLane 5: NCI-H292 whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 66 kDaBlocking/Dilution buffer: 5% NFDm/TBST



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of MCF-7 cells using MMP14 Antibody (N-term) (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
AAA284118 staining MMP14 in human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP14 antibody	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP14 seems to specifically activate progelatinase A, and may thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Expression is significant in stromal cells of colon, breast, and head and neck.
Product Categories/Family for anti-MMP14 antibody	Crown Antibodies; Cancer; Cardiovascular; Cell Biology; Neuroscience; Signal Transduction
References	Will, H., et al., Eur. J. Biochem. 231(3):602-608 (1995). Takino, T., et al., Gene 155(2):293-298 (1995). Okada, A., et al., Proc. Natl. Acad. Sci. U.S.A. 92(7):2730-2734 (1995). Sato, H., et al., Nature 370(6484):61-65 (1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826834
NCBI GeneID	4323
NCBI Accession #	NP_004986.1
NCBI GenBank Nucleotide #	NM_004995.3
UniProt Accession #	P50281; Q6GSF3; Q92678; A8K5L0
NCBI Official Full Name	matrix metalloproteinase-14 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 14 (membrane-inserted)
NCBI Official Symbol	MMP14
NCBI Official Synonym Symbols	MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1
NCBI Protein Information	matrix metalloproteinase-14
UniProt Protein Name	Matrix metalloproteinase-14
UniProt Gene Name	MMP14
UniProt Synonym Gene Names	MMP-14; MT-MMP 1; MTMMP1; MT1-MMP; MT1MMP
UniProt Entry Name	MMP14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/mmp14-antibody-western-blot-flow-cytometry-immunohistochemistry-elisa/284118>