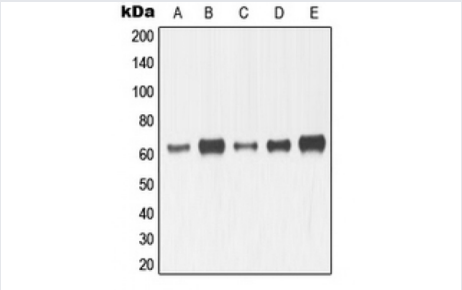
MMP14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP14, Polyclonal Antibody
Full Product Name	MMP14 Antibody
Product Gene Name	anti-MMP14 antibody
Product Synonym Names	Purified Polyclonal MMP14 Antibody; Polyclonal MMP14 antibody; Anti-MMP14 antibody; Matrix metalloproteinase-14 antibody; MMP-14 antibody; MMP-X1 antibody; Membrane-type matrix metalloproteinase 1 antibody; MT-MMP 1 antibody; MTMMP1 antibody; Membrane-type-1 matrix metalloproteinase antibody; MT1-MMP antibody; MT1MMP antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Supplied in liquid form in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3 with 30% Glycerol and 0.01% Sodium Azide
Purity/Purification	Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of MMP14 protein
Preparation and Storage	Store at 4 degree C for short term storage. For long term, aliquot and store at -20 degree C. Avoid repeat freeze/thaw cycles.
OMIM	600754
3D Structure	ModBase 3D Structure for P50281
Immunogen	MMP14 antibody was raised in Rabbit using a KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MMP14 as the immunogen
Cross-Reactivity	Mouse, Rat, Pig
Product Categories/Family for anti-MMP14 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-MMP14 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MMP14 antibody	WB: 1:500-1:1000 IHC: 1:100-1:200
Related Product Information for anti-MMP14 antibody	MMP14 is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted.
Other Notes	Small volumes of anti-MMP14 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MMP14 purchase	MBS5314696 is an antibody targeting MMP14. Also known as MMP14 Antibody. Host: Rabbit.



Western Blot (WB) of anti-MMP14 antibody
Western blot analysis of MMP14 expression in HeLa (A); HT1080 (B); MDMB23 (C); SP2/0 (D); mouse kidney (E); H9C2 (F) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP14. It may not necessarily be applicable to this product.

NCBI GI #	4826834
NCBI GeneID	4323
UniProt Primary Accession #	P50281
UniProt Related Accession #	P50281
GenBank Nucleotide #	NP_004986.1
NCBI Official Full Name	matrix metalloproteinase-14 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 14
NCBI Official Symbol	MMP14
NCBI Official Synonym Symbols	MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1
UniProt Protein Name	Matrix metalloproteinase-14
UniProt Synonym Protein Names	MMP-X1; Membrane-type matrix metalloproteinase 1; MT-MMP 1; MTMMP1; Membrane-type-1 matrix metalloproteinase
Protein Family	Matrix metalloproteinase
UniProt Gene Name	MMP14
UniProt Synonym Gene Names	MMP-14; MT-MMP 1; MTMMP1; MT1-MMP; MT1MMP
UniProt Entry Name	MMP14_HUMAN
NCBI Protein Information	matrix metalloproteinase-14
NCBI Summary for MMP14	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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP14	MMP14: 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. Up-regulated by NANOS1. Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors. Belongs to the peptidase M10A family. Protein type: Protease; EC 3.4.24.80; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: extracellular matrix; focal adhesion; integral to plasma membrane; Golgi lumen; cytoplasm; melanosome; plasma membrane Molecular Function: integrin binding; protein binding; protease activator activity; zinc ion binding; metalloendopeptidase activity; calcium ion binding; transcription factor activity Biological Process: extracellular matrix organization and biogenesis; tissue remodeling; male gonad development; negative regulation of focal adhesion formation; embryonic cranial skeleton morphogenesis; proteolysis; positive regulation of cell growth; collagen catabolic process; extracellular matrix disassembly; branching morphogenesis of a tube; regulation of transcription, DNA-dependent; ovarian follicle development; response to mechanical stimulus; response to estrogen stimulus; endothelial cell proliferation; response to hypoxia; zymogen activation; angiogenesis; response to oxidative stress; astrocyte cell migration; lung development; endochondral ossification; positive regulation of cell migration Disease: Winchester Syndrome
Research Articles on MMP14	**1.** MT1MMP was overexpressed in gastric carcinoma cells, and silencing of MT1MMP inhibited the proliferation and invasion of cells via regulating the expression of vimentin and Ecadherin.
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