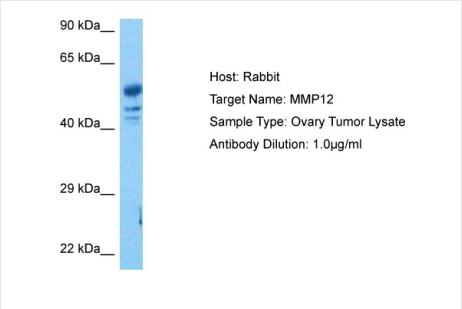
MMP12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP12, Polyclonal Antibody
Full Product Name	MMP12 Antibody - middle region
Product Gene Name	anti-MMP12 antibody
Product Synonym Gene Name	ME; HME; MME; MMP-12
Immunogen Sequence	Synthetic peptide located within the following region: RGIQSLYGDP KENQRLPNPD NSEPALCDPN LSFDAVTTVG NKIFFFKDRF
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 23% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	MMP12 peptide (MBS3245822) is used for blocking the activity of MMP12 antibody (MBS3221029)
Molecular Weight	51 kDa
OMIM	601046
3D Structure	ModBase 3D Structure for P39900
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human MMP12
Product Categories/Family for anti-MMP12 antibody	Polyclonal
Applications Tested/Suitable for anti-MMP12 antibody	Western Blot (WB)
Related Product Information for anti-MMP12 antibody	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease degrades soluble and insoluble elastin. This gene may play a role in aneurysm formation and mutations in this gene are associated with lung function and chronic obstructive pulmonary disease (COPD). This gene is part of a cluster of MMP genes on chromosome 11.
Other Notes	Small volumes of anti-MMP12 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 MMP12 purchase	MBS3221029 is an antibody targeting MMP12. Also known as MMP12 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MMP12 antibody
Host: RabbitTarget Name: MMP12Sample Tissue: Human Ovary Tumor lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP12. It may not necessarily be applicable to this product.

NCBI GI #	73858572
NCBI GeneID	4321
NCBI Accession #	NP_002417.2
UniProt Primary Accession #	P39900
UniProt Related Accession #	P39900
GenBank Nucleotide #	NM_002426.4
NCBI Official Full Name	macrophage metalloelastase preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 12
NCBI Official Symbol	MMP12
NCBI Official Synonym Symbols	ME; HME; MME; MMP-12
UniProt Protein Name	Macrophage metalloelastase
UniProt Synonym Protein Names	Macrophage elastase; ME; hME; Matrix metalloproteinase-12
Protein Family	Macrophage metalloelastase
UniProt Gene Name	MMP12
UniProt Synonym Gene Names	HME; MME; ME; hME; MMP-12
UniProt Entry Name	MMP12_HUMAN
NCBI Protein Information	macrophage metalloelastase

UniProt Comments for MMP12	MMP12: May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3. Belongs to the peptidase M10A family. Protein type: Secreted, signal peptide; Secreted; EC 3.4.24.65; Protease Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: proteinaceous extracellular matrix; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity; endopeptidase activity; calcium ion binding Biological Process: extracellular matrix disassembly; collagen catabolic process; extracellular matrix organization and biogenesis; positive regulation of epithelial cell proliferation involved in wound healing; proteolysis; wound healing, spreading of epidermal cells
Research Articles on MMP12	**1.** In active human systemic lupus erythematosus, MMP12 levels were lower and IFN-gamma higher compared to treated patients or healthy individuals. Hence, macrophage proteolytic truncation of IFN-gamma attenuates classical activation of macrophages as a prelude for resolving inflammation.
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