MMP13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MMP13, Polyclonal Antibody
Full Product Name	MMP13 (Collagenase 3, Matrix Metalloproteinase-13, MMP-13) (MaxLight 490)
Product Gene Name	anti-MMP13 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MMP13.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	53,820 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (102813721..102826463, complement). Location: 11q22.3
OMIM	600108
3D Structure	ModBase 3D Structure for P45452
Immunogen	Full length human MMP13, aa1-471 (NP_002418.1).
Immunogen Sequence	MHPGVLAAFLFLSWTHCRALPLPSGGDEDDLSEEDLQFAERYLRSYYHPTNLAGILKENAASSMTERLREMQSFFGLEVTGKLDDNTLDVMKKPRCGVP
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MMP13 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-MMP13 antibody	Western Blot (WB)
Application Notes for anti-MMP13 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MMP13 antibody	The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including
Other Notes	Small volumes of anti-MMP13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces
Searchable Terms for MMP13 purchase	MBS6385627 is an antibody targeting MMP13. Also known as MMP13 (Collagenase 3, Matrix Metalloproteinase-13, MMP-13) (MaxLight 490). Reactiv

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP13. It may not necessarily be applicable to this product.

NCBI GI #	4505209
NCBI GeneID	4322
NCBI Accession #	NP_002418.1
UniProt Primary Accession #	P45452
UniProt Related Accession #	P45452
GenBank Nucleotide #	NM_002427
NCBI Official Full Name	collagenase 3 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 13 (collagenase 3)
NCBI Official Symbol	MMP13
NCBI Official Synonym Symbols	CLG3; MANDP1
UniProt Protein Name	Collagenase 3
UniProt Synonym Protein Names	Matrix metalloproteinase-13
Protein Family	Collagenase
UniProt Gene Name	MMP13
UniProt Synonym Gene Names	MMP-13
UniProt Entry Name	MMP13_HUMAN
NCBI Protein Information	collagenase 3; MMP-13; matrix metalloproteinase 13 (collagenase 3)
NCBI Summary for MMP13	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. The protein encoded by this gene cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP13	MMP13: Degrades collagen type I. Does not act on gelatin or casein. Could have a role in tumoral process. Defects in MMP13 are the cause of spondyloepimetaphyseal dysplasia Missouri type (SEMD-MO). A bone disease characterized by moderate to severe metaphyseal changes, mild epiphyseal involvement, rhizomelic shortening of the lower limbs with bowing of the femora and/or tibiae, coxa vara, genu varum and pear-shaped vertebrae in childhood. Epimetaphyseal changes improve with age. Defects in MMP13 are the cause of metaphyseal anadysplasia type 1 (MANDP1). Metaphyseal anadysplasia consists of an abnormal bone development characterized by severe skeletal changes that, in contrast with the progressive course of most other skeletal dysplasias, resolve spontaneously with age. Clinical characteristics are evident from the first months of life and include slight shortness of stature and a mild varus deformity of the legs. Patients attain a normal stature in adolescence and show improvement or complete resolution of varus deformity of the legs and rhizomelic micromelia. Belongs to the peptidase M10A family. Protein type: Secreted; Secreted, signal peptide; EC 3.4.24.-; Protease Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: proteinaceous extracellular matrix; extracellular space; extracellular region Molecular Function: collagen binding; zinc ion binding; metalloendopeptidase activity; calcium ion binding Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; cellular protein metabolic process; proteolysis; bone mineralization; endochondral ossification Disease: Spondyloepimetaphyseal Dysplasia, Missouri Type
Research Articles on MMP13	**1.** The present results suggest that the S100A4 gene may control the invasive potential of human breast cancer cells by modulating MMP-13 levels, thus regulating metastasis and angiogenesis in breast tumors.
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