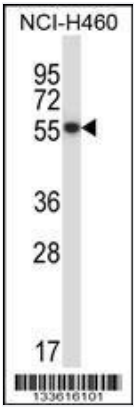
MMP3 Antibody – Rabbit Polyclonal

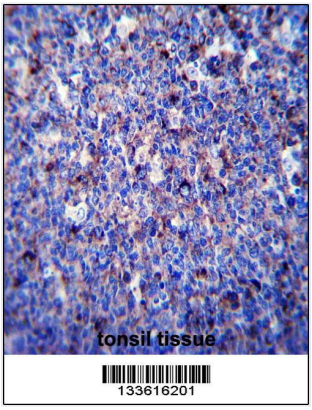
PRODUCT OVERVIEW

Product Name	MMP3, Polyclonal Antibody
Full Product Name	MMP3, NT (MMP3, STMY1, Stromelysin-1, Matrix metalloproteinase-3, Transin-1) (AP)
Product Gene Name	anti-MMP3 antibody
Product Synonym Names	MMP3; STMY1; Stromelysin-1; Matrix metalloproteinase-3; Transin-1
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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,977 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (102706528..102714342, complement). Location: 11q22.3
OMIM	185250
3D Structure	ModBase 3D Structure for P08254
Immunogen	MMP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-59 amino acids from the N-terminal region of human MMP3.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-MMP3 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-MMP3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MMP3 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MMP3 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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Product References and Citations for anti-MMP3 antibody	Fallah, S., et al. J. Physiol. Biochem. 66(4):359-364(2010). Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010): Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010). Skorupski, P., et al. Ginekol. Pol. 81(8):594-599(2010). Yeh, Y.C., et al. BMC Microbiol. 10, 218 (2010).

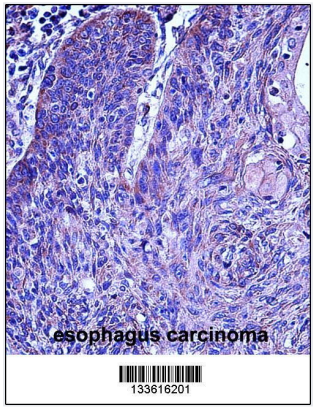
Other Notes	Small volumes of anti-MMP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MMP3 purchase	MBS6321449 is an antibody targeting MMP3. Also known as MMP3, NT (MMP3, STMY1, Stromelysin-1, Matrix metalloproteinase-3, Transin-1) (AP). Reactive in Human. Host: Rabbit.



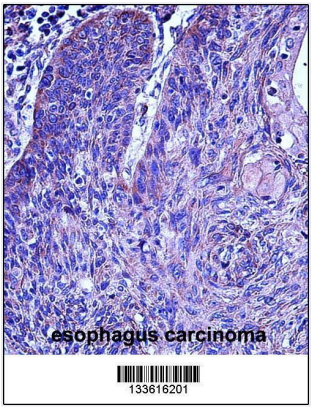
Western Blot (WB) of anti-MMP3 antibody
MMP3 Antibody (N-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the MMP3 antibody detected the MMP3 protein (arrow).



Immunohistochemistry (IHC) of anti-MMP3 antibody
MMP3 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MMP3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunohistochemistry (IHC) of anti-MMP3 antibody
MMP3 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human esophagus carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MMP3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-MMP3 antibody
Confocal immunofluorescent analysis of MMP3 Antibody (N-term) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP3. It may not necessarily be applicable to this product.

NCBI GI #	4505217
NCBI GeneID	4314
NCBI Accession #	NP_002413.1
UniProt Primary Accession #	P08254
UniProt Secondary Accession #	Q3B7S0; Q6GRF8; B2R8B8
UniProt Related Accession #	P08254
GenBank Nucleotide #	NM_002422.3
NCBI Official Full Name	stromelysin-1 preproprotein

NCBI Official Synonym Full Names	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
NCBI Official Symbol	MMP3
NCBI Official Synonym Symbols	SL-1; STMY; STR1; CHDS6; MMP-3; STMY1
UniProt Protein Name	Stromelysin-1
UniProt Synonym Protein Names	Matrix metalloproteinase-3; MMP-3; Transin-1
Protein Family	Stromelysin
UniProt Gene Name	MMP3
UniProt Synonym Gene Names	STMY1; SL-1; MMP-3
UniProt Entry Name	MMP3_HUMAN
NCBI Protein Information	stromelysin-1; transin-1; proteoglycanase; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, progelatinase)
UniProt Comments for MMP3	Function: Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase. Catalytic activity: Preferential cleavage where P1', P2' and P3' are hydrophobic residues. Cofactor: Binds 4 calcium ions per subunit.Binds 2 zinc ions per subunit. Subcellular location: Secreted › extracellular space › extracellular matrix Probable. Domain: The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme. Ref.13 Involvement in disease: Coronary heart disease 6 (CHDS6) [MIM:614466]: A multifactorial disease characterized by an imbalance between myocardial functional requirements and the capacity of the coronary vessels to supply sufficient blood flow. Decreased capacity of the coronary vessels is often associated with thickening and loss of elasticity of the coronary arteries.Note: Disease susceptibility is associated with variations affecting the gene represented in this entry. A polymorphism in the MMP3 promoter region is associated with the risk of coronary heart disease and myocardial infarction, due to lower MMP3 proteolytic activity and higher extracellular matrix deposition in atherosclerotic lesions. Ref.11 Ref.12 Sequence similarities: Belongs to the peptidase M10A family.Contains 4 hemopexin-like domains.
Research Articles on MMP3	**1.** Michelia alba extract inhibited UVB-induced MMP-1 and MMP-3 expression and MMP-9 activity.
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