

Rabbit anti-Human MMP12 Polyclonal Antibody | anti-MMP12 antibody

Anti-MMP12 Antibody, Rabbit Polyclonal

CATALOG # AAA254775	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Immunohistochemistry
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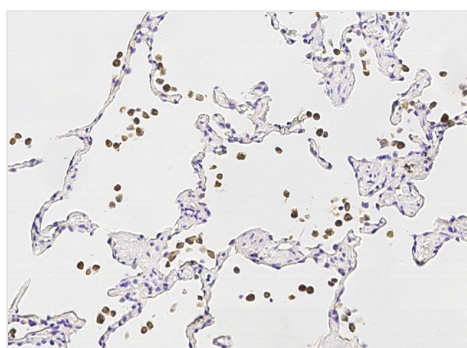
PRODUCT SYNONYMS

MMP12; Polyclonal Antibody; Anti-MMP12 Antibody; Rabbit Polyclonal; MMP-12/MMP12 Antibody; Rabbit PAb; Antigen Affinity Purified; matrix metallopeptidase 12; Anti-HME Antibody; Anti-ME Antibody; Anti-MME Antibody; Anti-MMP-12 Antibody; anti-MMP12 antibody

PRODUCT SPECIFICATIONS

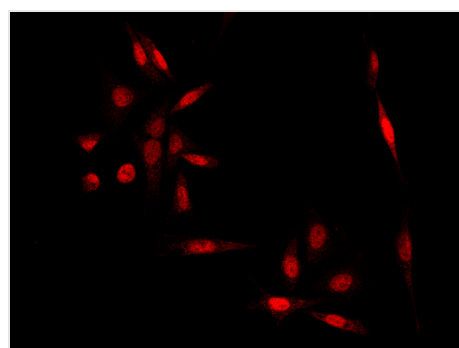
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human MMP-12/MMP12
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MMP12 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	Recombinant Human MMP-12/MMP12 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human MMP-12/MMP12 (rh MMP-12/MMP12). MMP-12/MMP12 specific IgG was purified by Human MMP-12/MMP12 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human MMP12 in human lung with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



IF (Immunofluorescence)

Immunofluorescence staining of MMP12 in HeLa cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-human MMP12 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP12 antibody	Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes such as morphogenesis, differentiation, angiogenesis, and tissue remodeling, as well as pathological processes including inflammation, arthritis, cardiovascular diseases, pulmonary diseases, and tumor invasion. Macrophage Metalloelastase, also known as Matrix metalloproteinase-12, Macrophage elastase, MMP12, and MMP-12, is a secreted protein that belongs to the peptidase M1A family. MMP12 is a macrophage-secreted elastase that is highly induced in the liver and lung in response to S. mansoni eggs and contains four hemopexin-like domains. MMP12 is a proteolytic enzyme responsible for the cleavage of plasminogen to angiotensin, which has an angiostatic effect. It may be involved in tissue injury and remodeling and has significant elastolytic activity. It may be related to prognosis in breast cancer patients. MMP12 promotes fibrosis by limiting the expression of specific ECM-degrading MMPs. Like MMP12, MMP13 expression is highly dependent on IL-13 and type I I-IL-4 receptor signaling. MMP12 is a potent proinflammatory and oncogenic molecule. MMP12 up-regulation plays a critical role in emphysema to lung cancer transition that is facilitated by inflammation.
References	Shapiro S.D., et al., (1993), Cloning and characterization of a unique elastolytic metalloproteinase produced by human alveolar macrophages. J. Biol. Chem. 268:23824-23829.Gronski T.J. Jr., et al., (1997), Hydrolysis of a broad spectrum of extracellular matrix proteins by human macrophage elastase.J. Biol. Chem. 272:12189-12194.Ota T., et al., (2004), Complete sequencing and characterization of 21, 243 full-length human cDNAs.Nat. Genet. 36:40-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73858572
NCBI GeneID	4321
NCBI Accession #	NP_002417.2
NCBI GenBank Nucleotide #	NM_002426.4
UniProt Accession #	P39900; Q2M1L9; B2R9X8; B7ZLF6
Molecular Weight	54,002 Da
NCBI Official Full Name	macrophage metalloelastase preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 12 (macrophage elastase)
NCBI Official Symbol	MMP12
NCBI Official Synonym Symbols	ME; HME; MME; MMP-12
NCBI Protein Information	macrophage metalloelastase; matrix metalloproteinase 12 (macrophage elastase)
UniProt Protein Name	Macrophage metalloelastase
UniProt Gene Name	MMP12
UniProt Synonym Gene Names	HME; MME; ME; hME; MMP-12
UniProt Entry Name	MMP12_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://stage.aaabiotech.com/polyclonal/mmp12-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254775>