

Rabbit MMP9 / Gelatinase B Polyclonal Antibody | anti-MMP9 antibody

Rabbit Polyclonal to Human MMP9 / Gelatinase B

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50685	Rabbit	Human, Bovine Predicted: Monkey, Dog, Hamster, Rabbit	Immunohistochemistry

PRODUCT SYNONYMS

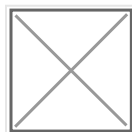
MMP9 / Gelatinase B; Polyclonal Antibody; Rabbit Polyclonal to Human MMP9 / Gelatinase B; Anti-MMP9 / Gelatinase B Antibody (Internal) IHC-plus; MMP9; 92kd gelatinase; 92 kd type iv collagenase; 92 kDa gelatinase; 92 kDa type IV collagenase; Matrix metalloproteinase-9; MMP-9; Type V collagenase; CLG4B; Gelatinase B; GELB; Macrophage gelatinase; MANDP2; Human MMP9; anti-MMP9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Bovine Predicted: Monkey, Dog, Hamster, Rabbit
Clonality	Polyclonal
Specificity	Human MMP9. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	0.4 mg/ml (varies by lot)
Sequence Length	707
Applicable Applications for anti-MMP9 antibody	IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Synthetic 12 amino acid peptide from internal region of human MMP9. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset, Bovine (100%); Monkey, Dog, Hamster, Rabbit (92%); Mouse, Panda, Horse, Pig, Chicken (83%).
Immunogen Type	Synthetic peptide
Immunogen	MMP9 / Gelatinase B antibody was raised against synthetic 12 amino acid peptide from internal region of human MMP9. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset, Bovine (100%); Monkey, Dog, Hamster, Rabbit (92%); Mouse, Panda, Horse, Pig, Chicken (83%).
Epitope	Internal
Immunogen Species	MMP9 / Gelatinase B antibody was raised against Human
Antigen Type	Synthetic peptide
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Aliquot and store undiluted at -20 degree C or below for to 1 year. Can be stored undiluted at 4 degree C for up to 1 month, Avoid freeze/thaw cycles

IMAGES



IHC (Immunohistochemistry)

Anti-MMP9 antibody IHC of human skin, granulation tissue. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP9 antibody

Matrix metalloproteinases (MMPs) are neutral proteinases that are involved in the breakdown and remodeling of the extracellular matrix (ECM) under a variety of physiological and pathological conditions. MMP9 is a Metallopeptidase M10A type protease and is particularly important in the pathogenesis of inflammatory, infectious, and neoplastic diseases in many organs.

Product Categories/Family for anti-MMP9 antibody	Family: Protease ; Subfamily: Metallopeptidase M10A
References	Altered Microenvironment Promotes Progression of Preinvasive Breast Cancer: Myoepithelial Expression of α6 Integrin in DCIS Identifies High-risk Patients and Predicts Recurrence . Michael D. Allen, Gareth J. Thomas, Sarah Clark, Marwa M. Dawoud, Sabarinath Vallath, Sarah J. Payne, Jennifer J. Gomm, Sally A. Dreger, Sarah Dickinson, Dylan R. Edwards, Caroline J. Pennington, Ivana Sestak, Jack Cuzick, John F. Marshall, Ian R. Hart and J. Louise Jones (2014)

NCBI AND UNIPROT INFORMATION

NCBI GI #	74272287
NCBI GeneID	4318
NCBI Accession #	NP_004985.2
NCBI GenBank Nucleotide #	NM_004994.2
UniProt Accession #	P14780 ; Q3LR70 ; Q8N725 ; Q9H4Z1 ; Q9UCJ9 ; Q9UCL1 ; Q9UDK2 ; B2R7V9
NCBI Official Full Name	matrix metalloproteinase-9 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
NCBI Protein Information	matrix metalloproteinase-9; type V collagenase; macrophage gelatinase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
UniProt Entry Name	MMP9_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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