Datasheet for ABIN6143921

anti-MMP 9 antibody (AA 400-500)

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Overview

Quantity:	100 µL
Target:	MMP 9 (MMP9)
Binding Specificity:	AA 400-500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 400-500 of human MMP9 (NP_004985.2).
Sequence:	AHEFGHALGL DHSSVPEALM YPMYRFTEGP PLHKDDVNGI RHLYGPRPEP EPRPPTTTTP QPTAPPTVCP TGPPTVHPSE RPTAGPTGPP SAGPTGPPTA G
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	MMP 9 (MMP9)

Target Details

Alternative Name:	MMP9 (MMP9 Products)
Background:	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 enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.,MMP9,CLG4B,GELB,MANDP2,MMP-9,Cancer,Tumor biomarkers,Invasion and Metastasis,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Cell Biology & Developmental Biology,Apoptosis,Cytoskeleton,Extracellular Matrix,MMPs,Ubiquitin,Cardiovascular,Angiogenesis,MMP9
Molecular Weight:	78 kDa
Gene ID:	4318
UniProt:	P14780
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:100 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

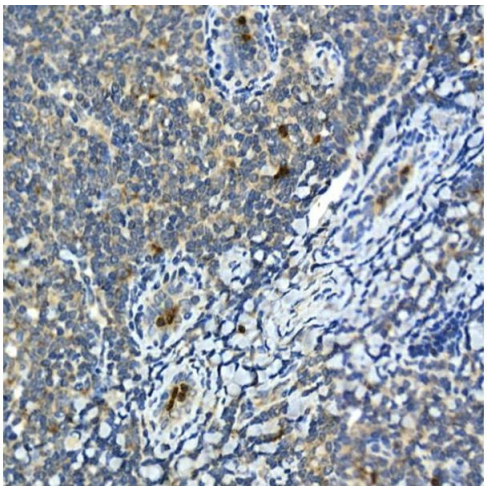
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

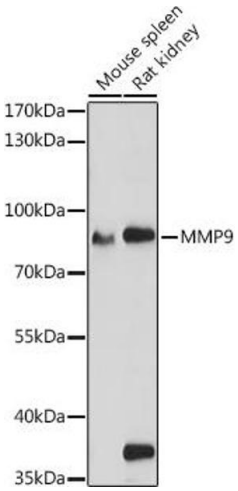
Product cited in:	Wang, Dong, Liu, Xu, Hu, Fan, Chen: "Early growth response factor-1 DNA enzyme 1 inhibits the formation of abdominal aortic aneurysm in rats." in: **Experimental and therapeutic medicine**, Vol. 16, Issue 1, pp. 141-148, (2018) (PubMed).

Images



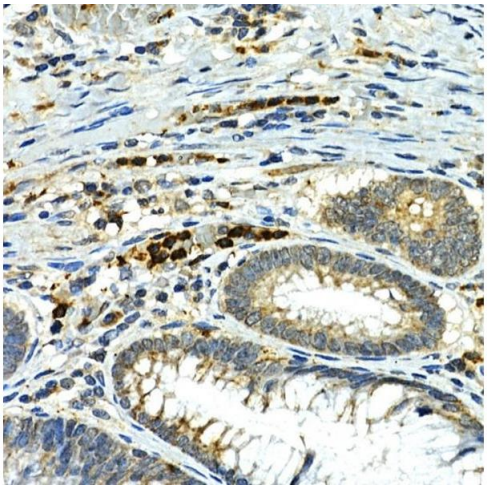
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human tonsil using MMP9 Rabbit pAb (ABIN6134758, ABIN6143921, ABIN6143924 and ABIN6215080) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using MMP9 antibody (ABIN6134758, ABIN6143921, ABIN6143924 and ABIN6215080) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon carcinoma using MMP9 Rabbit pAb (ABIN6134758, ABIN6143921, ABIN6143924 and ABIN6215080) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.