

Datasheet for ABIN6143920  
**anti-MMP 9 antibody (AA 538-707)**[Go to Product page](#)

6 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	MMP 9 (MMP9)
Binding Specificity:	AA 538-707
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 538-707 of human MMP9 (NP_004985.2).
Sequence:	KYWRFSEGRG SRPQGPFLLA DKWPALPRKL DSVFEERLSK KLFFFSGRQV WVYTGASVLG PRRLDKLGLG ADVAQVTGAL RSGRGKMLLF SGRRLWRFDV KAQMVDPRSA SEVDRMFPGV PLDTHDVFQY REKAYFCQDR FYWRVSSRSE LNQVDQVG YV TYDILQCPED
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	MMP 9 (MMP9)
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## Target Details

Alternative Name:	MMP9 ( <a href="#">MMP9 Products</a> )
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:	<a href="#">P14780</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">CXCR4-mediated Signaling Events</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 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

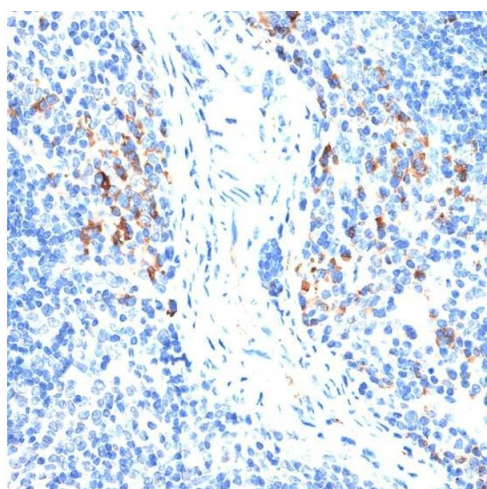
## Handling

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

## Publications

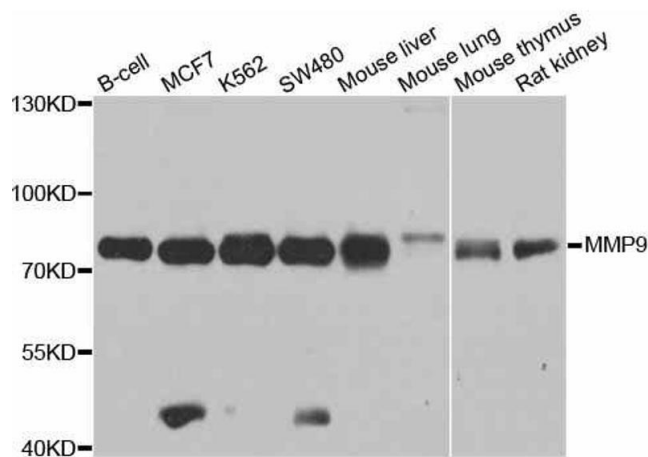
Product cited in: Li, Yang, Tian, Li, Cui, Chen, Deng, Chen, Hayakawa, Sekiguchi, Cai: "MutT-related proteins are novel progression and prognostic markers for colorectal cancer." in: **Oncotarget**, Vol. 8, Issue 62, pp. 105714-105726, (2017) ([PubMed](#)).

## Images



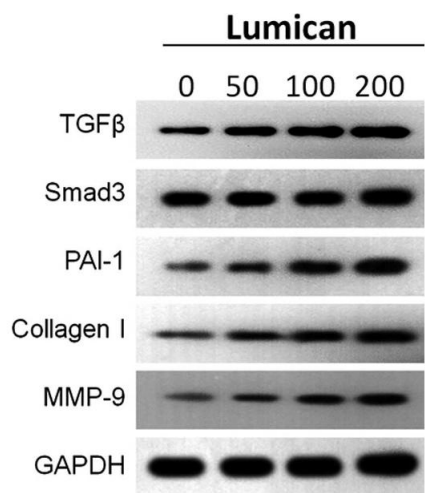
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded mouse spleen using MMP9 antibody (ABIN6131951, ABIN6143920, ABIN6143923 and ABIN6213777) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using MMP9 antibody.



**Western Blotting**

**Image 3.** Lumican promotes the expression of protein level in fibrosis. The protein expression levels of TGF-β, SMAD-3, PAI-1, Collagen I, MMP-9 and GAPDH of human synovial fibroblasts treatment with lumican (0, 50, 100 or 200 nm) for 48 h. The experiment was repeated three times. - figure provided by CiteAb. Source: PMID32910552

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6143920.