

Datasheet for ABIN390154

**anti-MMP 9 antibody (C-Term)****4** Images**9** Publications[Go to Product page](#)

## Overview

Quantity:	400 µL
Target:	MMP 9 (MMP9)
Binding Specificity:	AA 644-673, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This MMP9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 644-673 amino acids from the C-terminal region of human MMP9.
Clone:	RB02019-RB02020
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	MMP 9 (MMP9)
Alternative Name:	MMP9 ( <a href="#">MMP9 Products</a> )

## Target Details

**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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP9 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.

**Molecular Weight:** 78458

**Gene ID:** 4318

**NCBI Accession:** [NP\\_004985](#)

**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: 1:2000. IHC-P: 1:50~100. IHC-P: 1:50~100. IHC-P: 1:50~100

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**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:** 4 °C,-20 °C

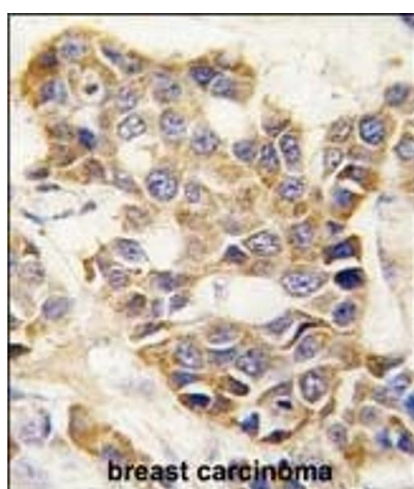
**Storage Comment:** Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

**Expiry Date:** 6 months

## Publications

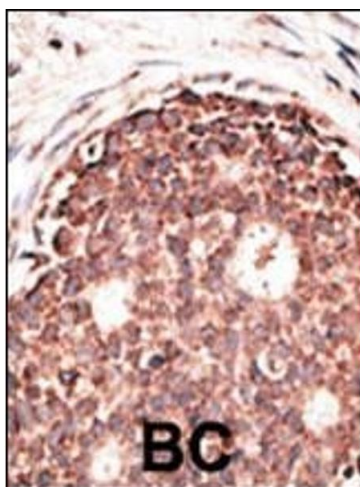
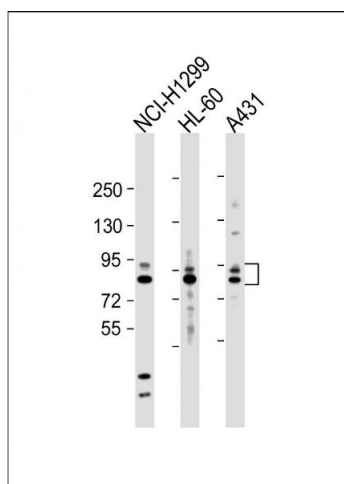
- Product cited in: Dou, Cao, Wang, Zhang, Huang, Lian, Xie, Wang: "EFEMP1 inhibits migration of hepatocellular carcinoma by regulating MMP2 and MMP9 via ERK1/2 activity." in: **Oncology reports**, Vol. 35, Issue 6, pp. 3489-95, (2017) ([PubMed](#)).
- Du, Wang, Tan, Li, Huang, Huang, Yang, Zhang, Wang, Huang, Huang: "Nkx2-5 Is Expressed in Atherosclerotic Plaques and Attenuates Development of Atherosclerosis in Apolipoprotein E-Deficient Mice." in: **Journal of the American Heart Association**, Vol. 5, Issue 12, (2017) ([PubMed](#)).
- Huang, Chiu, Chou, Su, Chen, Chai, Huang, Huang, Yuan, Lee: "Association of MMP-2 and MMP-9 expression with recurrences in primary spontaneous pneumothorax." in: **The Kaohsiung journal of medical sciences**, Vol. 33, Issue 1, pp. 17-23, (2017) ([PubMed](#)).
- Dai, Duan, Duan, Zhou, He, Tu, Shen: "Down-regulation of TCF21 by hypermethylation induces cell proliferation, migration and invasion in colorectal cancer." in: **Biochemical and biophysical research communications**, (2015) ([PubMed](#)).
- Alfonso-Loeches, Ureña-Peralta, Morillo-Bargues, Gómez-Pinedo, Guerri: "Ethanol-Induced TLR4/NLRP3 Neuroinflammatory Response in Microglial Cells Promotes Leukocyte Infiltration Across the BBB." in: **Neurochemical research**, (2015) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with P9 antibody (C-term) (ABIN390154 and ABIN2840653), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



### Western Blotting

**Image 2.** All lanes : Anti-P9 Antibody at 1:2000 dilution Lane 1: NCI- whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN390154.