

Datasheet for 600-401-CU9**MMP9 Antibody****Overview**

Description:	Anti-MMP9 (RABBIT) Antibody - 600-401-CU9
Item No.:	600-401-CU9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB, Cellular Assay
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The matrix metalloproteinase (MMP) family are a family of proteins that 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 (1). MMP9 degrades type IV and V collagens (2) and studies suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow (3) and plays a role in tumor-associated tissue remodeling (4).
Synonyms:	MMP9 Antibody , GELB, CLG4B, MMP-9, MANDP2, Matrix metalloproteinase-9, 92 kDa gelatinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MMP9
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MMP9 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the internal region of human MMP9.

Purity/Specificity: Anti-MMP9 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. MMP9 antibody is human, mouse and rat reactive. At least three isoforms of MMP9 are known to exist; this antibody only recognizes the two longest isoforms.

Relevant Links:

- [UniProtKB - P14780](#)
- [GeneID - 4318](#)
- [NCBI - NP_004985](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Suggested Applications: Cellular Assay (Based on references)

Application Note: Anti-MMP9 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 78 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: User Optimized

IHC: User Optimized

WB: 1 µg/ml

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

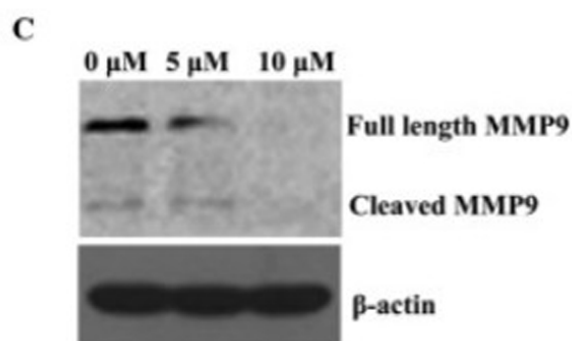
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

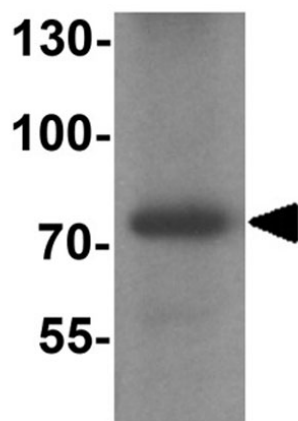
Expiration: Expiration date is one (1) year from date of receipt.

Images



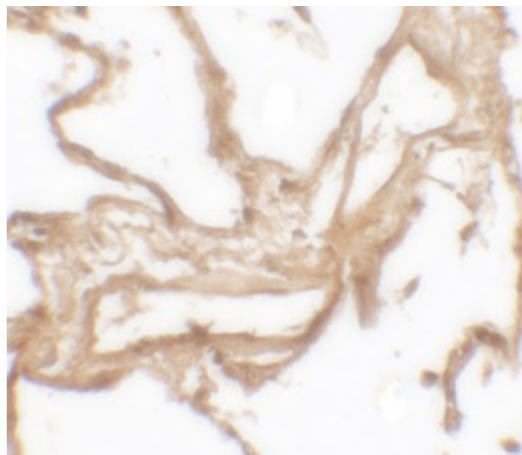
Western Blot

(C) Effects of WIN treatment on the protein expression levels of MMP-9 in BEL7402 cells. Total cell lysates were prepared for immunoblot analysis. The data are representative of a typical experiment repeated three times. Fig 4. PMID: 26500101



Western Blot

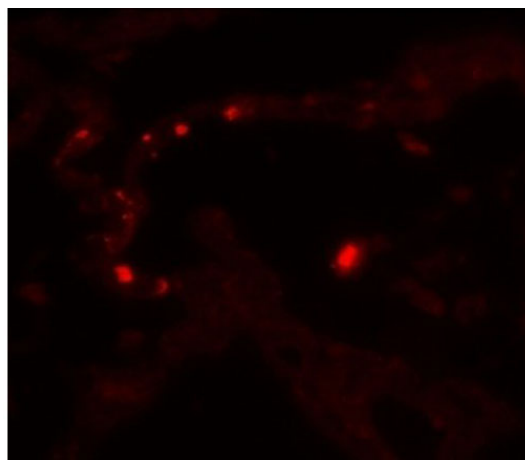
Western blot of MMP9.
 Load: mouse lung tissue lysate.
 Primary Antibody: MMP9 antibody at 1 μ g/ml.

**Immunohistochemistry**

Immunohistochemistry of MMP9.

Tissue: human lung tissue.

Primary Antibody: MMP9 antibody at 2.5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of MMP9.

Tissue: human lung tissue.

Primary Antibody: MMP9 antibody at 20 µg/mL.

References

- Xu et al. Cannabinoid WIN55, 212-2 induces cell cycle arrest and inhibits the proliferation and migration of human BEL7402 hepatocellular carcinoma cells. *Molecular Medicine Reports* (2015)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.