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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

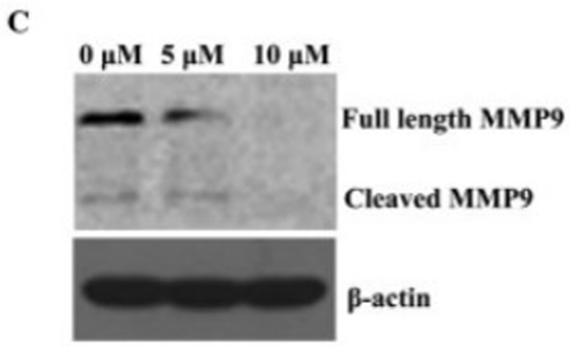
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

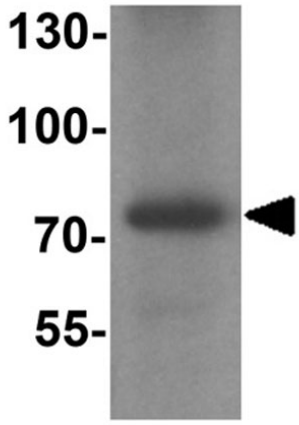
Shipping Condition:	Wet Ice

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.

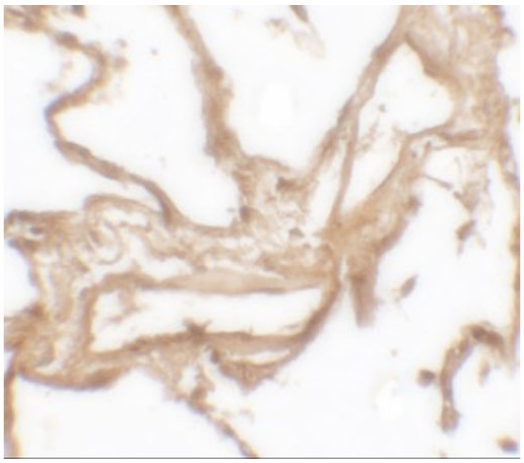
Images



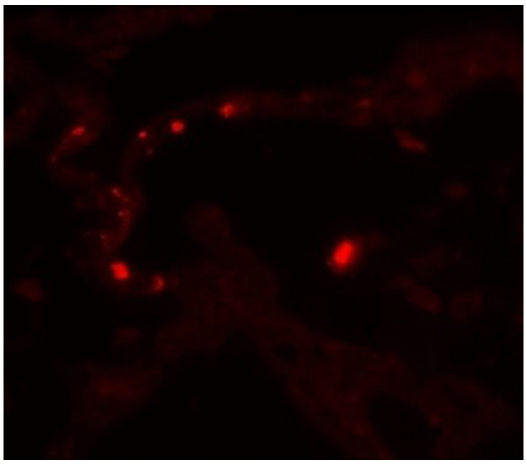
Western Blot
(C) Effects of WIN treatment on the protein expression levels of MMP-9 in BEL7402 cells. Total cell lysates were prepared for immunoblot analysis. The data are representative of a typical experiment repeated three times. Fig 4.
PMID: 26500101



Western Blot
Western blot of MMP9.
Load: mouse lung tissue lysate.
Primary Antibody: MMP9 antibody at 1 μg/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)

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