

Product Datasheet

MMP-9 Antibody - BSA Free NBP2-41233

Unit Size: 0.1 mg

Store at 4C.

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NBP2-41233

MMP-9 Antibody - BSA Free

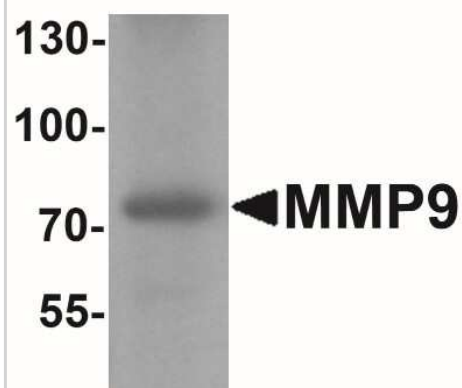
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	73 kDa

Product Description	
Host	Rabbit
Gene ID	4318
Gene Symbol	MMP9
Species	Human, Mouse, Rat
Specificity/Sensitivity	At least three isoforms of MMP9 are known to exist; this antibody only recognizes the two longest isoforms.
Immunogen	Antibody was raised against a 16 amino acid peptide near the center of human MMP9. The immunogen is located within amino acids 260 - 310 of MMP9 . Amino Acid Squence: PSERLYTQDGNADGK

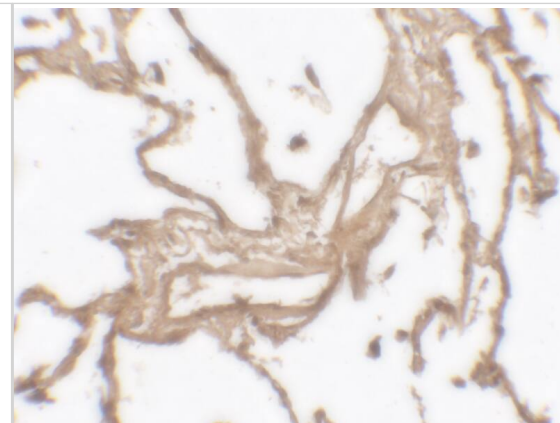
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 - 2 ug/ml, ELISA, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 2.5 ug/ml

Images

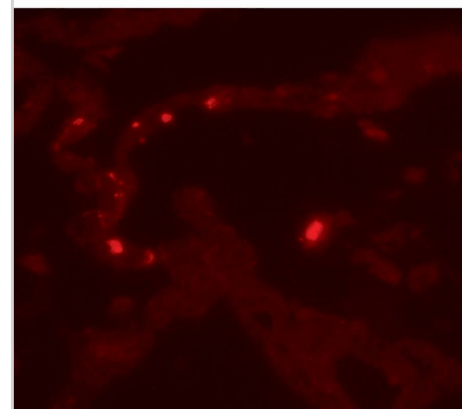
Western Blot: MMP-9 Antibody [NBP2-41233] - Analysis of MMP9 in mouse lung tissue lysate with MMP9 antibody at 1 ug/ml.



Immunohistochemistry: MMP-9 Antibody - BSA Free [NBP2-41233] - Immunohistochemistry of MMP-9 in human lung tissue with MMP-9 antibody at 2.5 u/mL.



Immunocytochemistry/ Immunofluorescence: MMP-9 Antibody - BSA Free [NBP2-41233] - Immunofluorescence of MMP-9 in human lung tissue with MMP-9 antibody at 20 ug/mL.

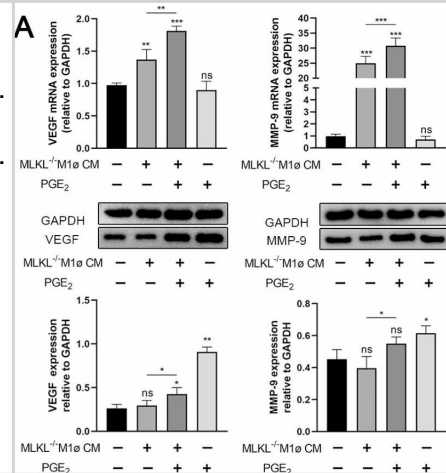


MLKL in macrophages affects myofibroblasts activities through PGE2.

(A) The mRNA and protein expression of VEGF, MMP-9 in MLKL+/+ myofibroblasts treated with MLKL-/- M1ø CM or with PGE2 supplement.

(B) The mRNA and protein expression of VEGF, MMP-9 in MLKL+/+ myofibroblasts treated with MLKL-/- M2ø CM or with PGE2 supplement.

GAPDH was used as a loading control. Grayscale values were measured using ImageJ software. Littermate control mice were on a C57BL/6J genetic background were utilized in the experiments. Results were expressed as the mean +/- SD and were analyzed by one-way ANOVA followed by Tukey's multiple comparisons test (n = 4-6). *P < 0.05, **P < 0.01, ***P < 0.001. ns not significant. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40253554>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

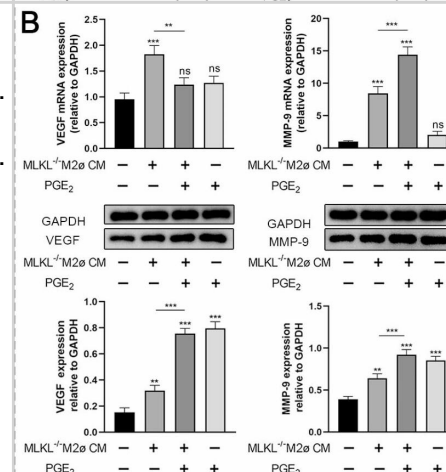


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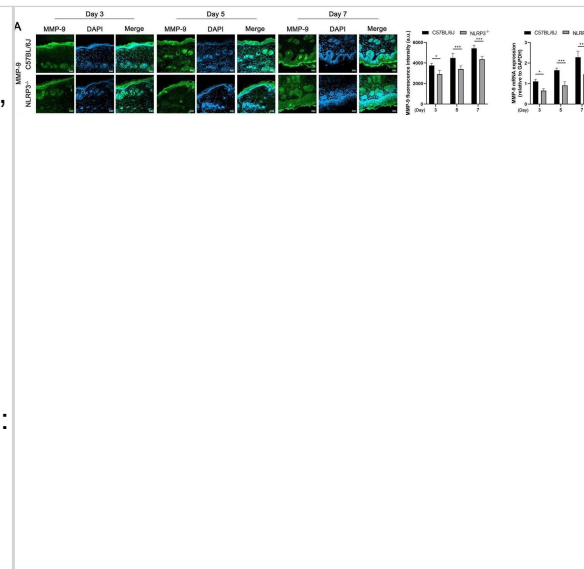
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(B) The mRNA and protein expression of VEGF, MMP-9 in MLKL+/+ myofibroblasts treated with MLKL-/- M2ø CM or with PGE2 supplement.

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NLRP3 is involved in tissue growth related factors expression in wound site (A-D) Skin wound tissues from wild-type and NLRP3^{-/-} mice were subjected to immunofluorescence staining for MMP-9 (green), ER α (red), EGF (green), VEGF (red), and nuclei (DAPI, blue) on days 3, 5, and 7 post-injury. The merged images represent the composite pictures of the target protein and nuclei. Immunofluorescence staining was visualized using fluorescence microscopy (Zeiss LSM 800 laser, $\times 200$ magnification), and the mean fluorescence intensity was quantified (a.u., arbitrary units). The mRNA expression of MMP-9, ER α , EGF, and VEGF in wild-type and NLRP3^{-/-} skin wound tissues was quantified using RT-PCR. GAPDH serves as internal reference. Results are expressed as mean \pm SD from multiple independent experiments and were analyzed using Student t test (n = 5). Statistical significance is indicated as follows: *P < 0.05, **P < 0.01, ***P < 0.001. Scale bar = 20 μ m Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39881348>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zhao J, Zhang S, Gong Z et al. NLRP3: a key regulator of skin wound healing and macrophage-fibroblast interactions in mice *Cell Communication and Signaling* : CCS 2025-01-29 [PMID: 39881348]

Zhao J, Zhang S, Bai Y et al. MLKL is involved in the regulation of skin wound healing and interplay between macrophages and myofibroblasts in mice *Scientific Reports* 2025-04-19 [PMID: 40253554]



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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-57940PEP	MMP-9 Antibody Blocking Peptide

Limitations

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