

Product Datasheet

MMP-12 Antibody (SR03-23)

NBP2-67344

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-67344

MMP-12 Antibody (SR03-23)

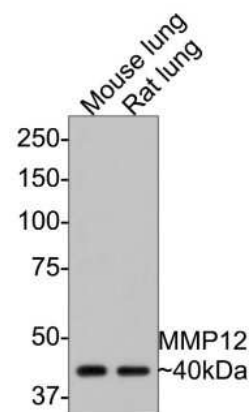
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SR03-23
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit MMP-12 Antibody (SR03-23) (NBP2-67344) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-MMP-12 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4321
Gene Symbol	MMP12
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human MMP-12 aa 421-470 / 470. (SwissProt: P39900 Human; SwissProt: P34960 Mouse; SwissProt: Q63341 Rat)

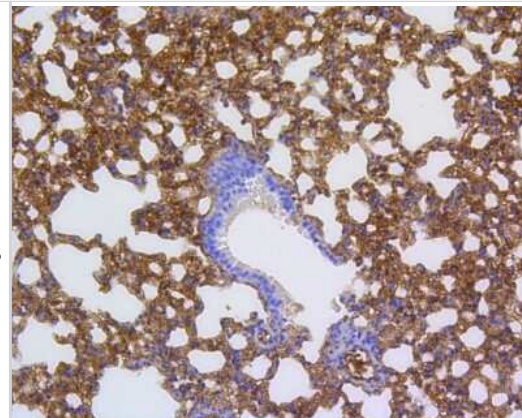
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:20-1:50, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	IP: Use at an assay dependent concentration.

Images

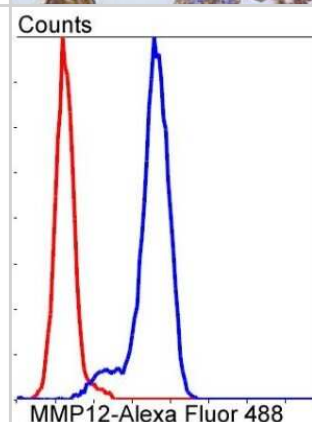
Western Blot: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of MMP-12 on different lysates with Rabbit anti-MMP-12 antibody at 1/500 dilution. Lane 1: Mouse lung tissue lysate Lane 2: Rat lung tissue lysate Lysates/proteins at 20 ug/Lane. Predicted band size: 54 kDa Observed band size: 40 kDa Exposure time: 1 minute; 8% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:200,000 dilution was used for 1 hour at room temperature.



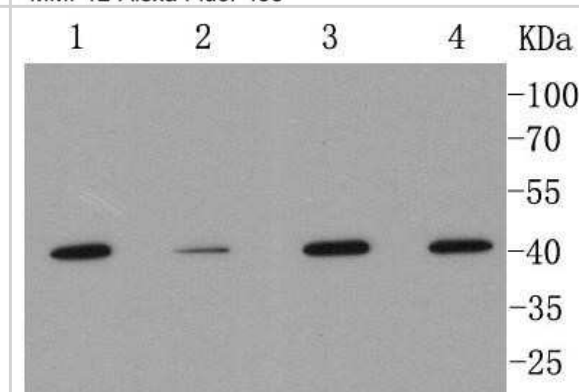
Immunohistochemistry-Paraffin: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of paraffin-embedded mouse lung tissue using anti-MMP12 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



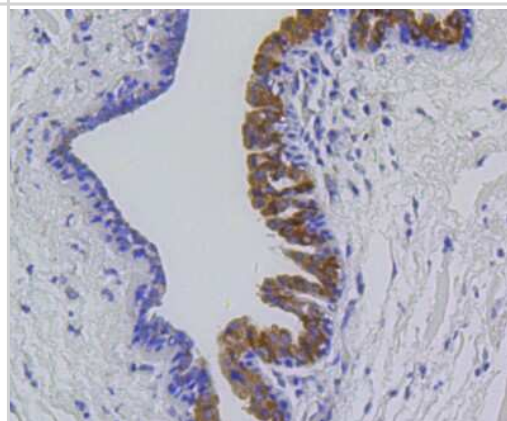
Flow Cytometry: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of A549 cells with MMP12 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



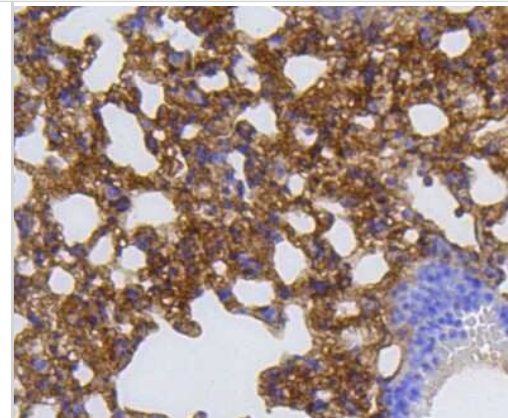
Western Blot: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of MMP12 on different cell lysates using anti-MMP12 antibody at 1/1,000 dilution. Positive control: Lane 1: A549 Lane 2: Hela Lane 3: MCF-7 Lane 4: THP-1



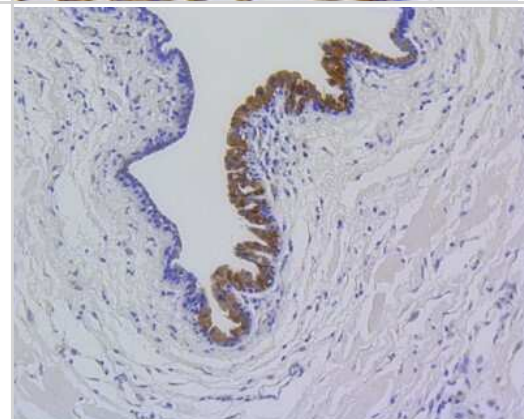
Immunohistochemistry-Paraffin: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of paraffin-embedded human breast carcinoma tissue using anti-MMP12 antibody. Counter stained with hematoxylin.



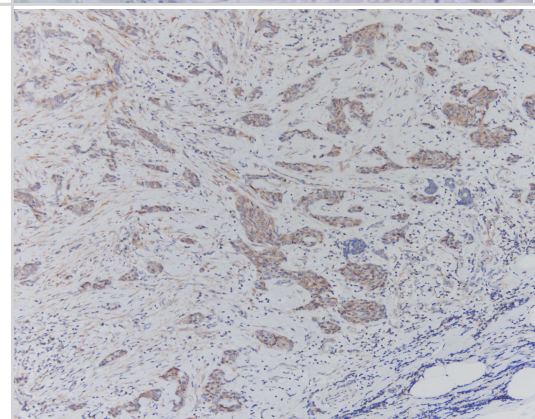
Immunohistochemistry-Paraffin: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of paraffin-embedded mouse lung tissue using anti-MMP12 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of paraffin-embedded human breast carcinoma tissue using anti-MMP-12 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: Rabbit Monoclonal MMP-12 Antibody (SR03-23) [NBP2-67344] - Analysis of MMP-12 antibody on human breast cancer tissue. Pretreatment: ER2 100C 20min, Blocking: 2.5% Normal horse serum 10min, Primary Ab: 1/200 60min, HRP for Rabbit 30min, DAB 5min, Hematoxylin counterstain. Image from a verified customer review.



Publications

Wang Q, Sundar I, Li D et al. E-cigarette-Induced Pulmonary Inflammation and Dysregulated Repair are Mediated by nAChR $\alpha 7$ Receptor: Role of nAChR $\alpha 7$ in ACE2 Covid-19 receptor regulation Research Square 2022-11-07 [PMID: 32702718] (Western Blot, Mouse)

Witayavanitkul N, Werawatganon D, Chayanupatkul M et al. Genistein and exercise treatment reduced NASH related HDAC3, IL-13 and MMP-12 expressions in ovariectomized rats fed with high fat high fructose diet J Tradit Complement Med 2021-11-12 [PMID: 34765514] (Western Blot, Mouse)

Thomas Lamb, Gagandeep Kaur, Irfan Rahman Tobacco-derived and tobacco-free nicotine cause differential inflammatory cell influx and MMP-9 in mouse lung Respiratory Research 2024-01-23 [PMID: 38254111]

Qixin Wang, Isaac K. Sundar, Joseph H. Lucas, Thivanka Muthumalage, Irfan Rahman Molecular clock REV-ERB α regulates cigarette smoke-induced pulmonary inflammation and epithelial-mesenchymal transition JCI Insight 2021-06-22 [PMID: 34014841]

Wu W, Sarhadi M, Song X et al. Liver X receptors and estrogen receptor γ , two players in a rare subtype of NSCLC International journal of biological sciences 2023-05-29 [PMID: 37324952] (IHC-P, Mouse)

Details:
Mouse lung

Wu W, Sarhadi M, song X et al. Liver X receptors in the lung, a link between cigarette smoke and lung cancer Research Square 2022-12-16 (Immunohistochemistry, Mouse)

Zhu X, Schrader JM, Irizarry BA et al. Impact of A β 40 and A β 42 Fibrils on the Transcriptome of Primary Astrocytes and Microglia Biomedicines 2022-11-19 [PMID: 36428550] (IHC-Fr, Rat)

Details:
Fifteen-month-old rTgF344-AD rat brain sections, dilution used 1:200

Kaur G, Sundar I, Rahman I p16-3MR: A Novel Model to Study Cellular Senescence in Cigarette Smoke-Induced Lung Injuries International Journal of Molecular Sciences 2021-05-03 [PMID: 34063608] (WB, Mouse)

Wang Q, Sundar IK, Li D et al. E-cigarette-induced pulmonary inflammation and dysregulated repair are mediated by nAChR $\alpha 7$ receptor: role of nAChR $\alpha 7$ in SARS-CoV-2 Covid-19 ACE2 receptor regulation Respir. Res. 2020-06-18 [PMID: 32552811] (WB, Mouse)

Details:
Citation using the Alexa Fluor 488 format of this antibody.



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Products Related to NBP2-67344

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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