

Product Datasheet

Neutrophil Elastase/ELA2 Antibody (JF098-6) NBP2-66972

Unit Size: 100 ul

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

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NBP2-66972

Neutrophil Elastase/ELA2 Antibody (JF098-6)

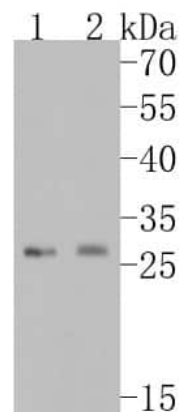
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JF098-6
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit Neutrophil Elastase/ELA2 Antibody (JF098-6) (NBP2-66972) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Neutrophil Elastase/ELA2 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1991
Gene Symbol	ELANE
Species	Human, Mouse
Immunogen	Recombinant protein within Human Neutrophil Elastase/ELA2 aa 1-140 / 268. (SwissProt: P08246 Human; SwissProt: Q3UP87 Mouse)

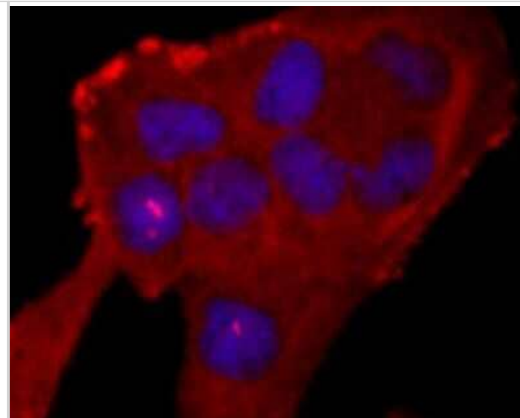
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:10-1:50, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:50, Immunohistochemistry-Paraffin 1:50-1:200

Images

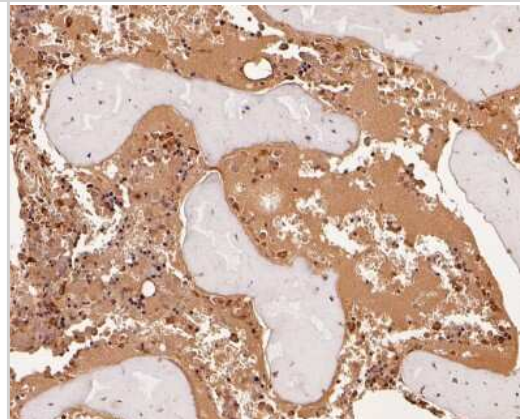
Western Blot: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Western blot analysis of Neutrophil Elastase on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse spleen tissue lysate Lane 2: Mouse bone marrow tissue lysate



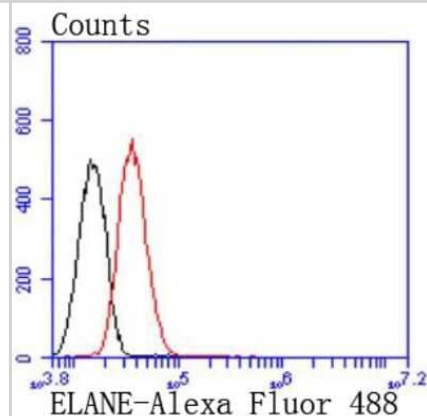
Immunocytochemistry/Immunofluorescence: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - ICC staining of Neutrophil Elastase in Hela cells (red). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®594 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).



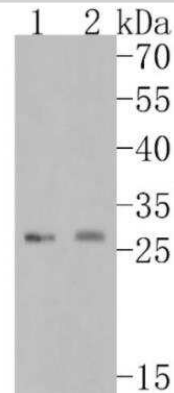
Immunohistochemistry-Paraffin: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Immunohistochemical analysis of paraffin-embedded human bone marrow tissue using anti-Neutrophil Elastase antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) 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.



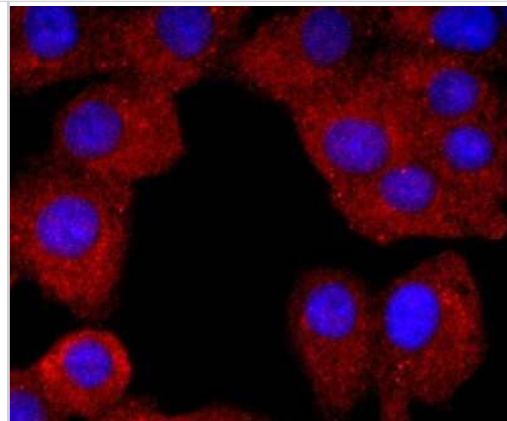
Flow Cytometry: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Analysis of HepG2 cells with Neutrophil Elastase antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



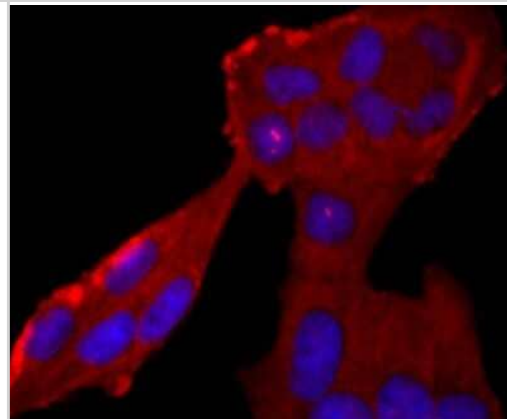
Western Blot: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Analysis of Neutrophil Elastase on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse spleen tissue lysate Lane 2: Mouse bone marrow tissue lysate



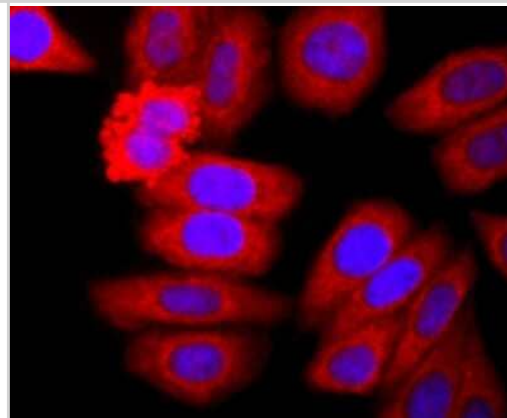
Immunocytochemistry/Immunofluorescence: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Staining Neutrophil Elastase in A549 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



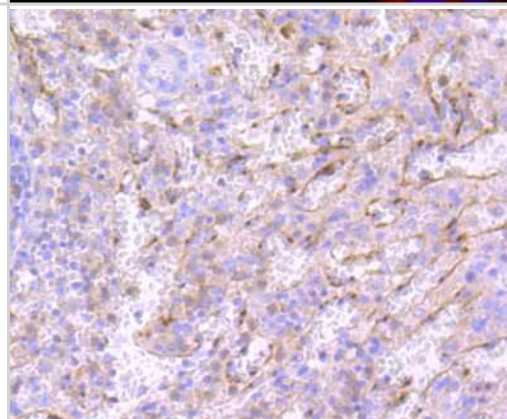
Immunocytochemistry/Immunofluorescence: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Staining Neutrophil Elastase in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



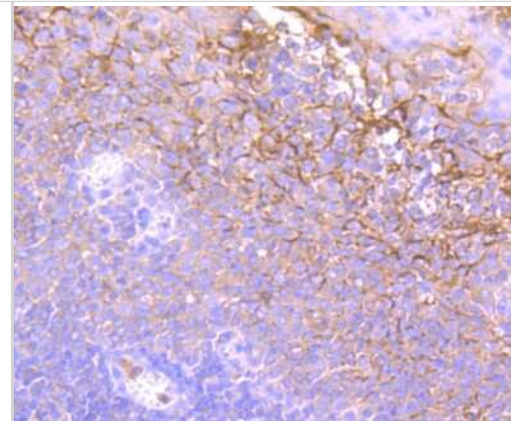
Immunocytochemistry/Immunofluorescence: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Staining Neutrophil Elastase in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



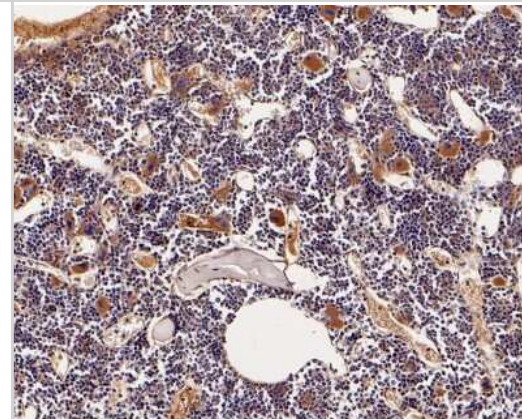
Immunohistochemistry-Paraffin: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Analysis of paraffin-embedded human spleen tissue using anti-Neutrophil Elastase antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Analysis of paraffin-embedded human tonsil tissue using anti-Neutrophil Elastase antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: Neutrophil Elastase/ELA2 Antibody (JF098-6) [NBP2-66972] - Immunohistochemical analysis of paraffin-embedded mouse bone tissue using anti-Neutrophil Elastase/ELA2 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.



Publications

Poole JA, Thiele GM, Ramler E et al. Combined repetitive inhaled endotoxin and collagen-induced arthritis drive inflammatory lung disease and arthritis severity in a testosterone-dependent manner. *American journal of physiology. Lung cellular and molecular physiology* 2024-02-19 [PMID: 38086040]

Chen CJ, Wu CC, Chang CY et al. Metformin Mitigated Obesity-Driven Cancer Aggressiveness in Tumor-Bearing Mice *International journal of molecular sciences* 2022-08-15 [PMID: 36012397] (IHC-P, Mouse)

Details:

Human samples were used in Flow, Mouse in IHC-P and ELISA

Zhang Y, Qi J, Yan D et al. HNE Induces the Hyperexpression of MUC5AC in Chronic Rhinosinusitis With Nasal Polyps by Activating the TRAF6/Autophagy Regulatory Axis *American journal of rhinology & allergy* 2022-08-02 [PMID: 35915986]



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Products Related to NBP2-66972

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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