Product Datasheet

Furin Antibody
NB100-1903

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.

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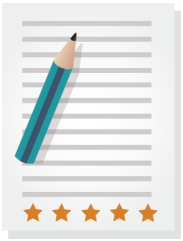
Updated 9/9/2025 v.20.1



NB100-1903

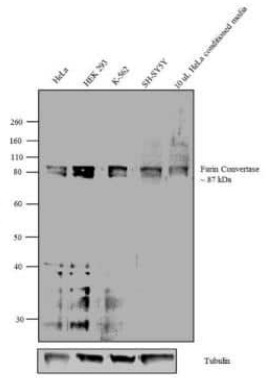
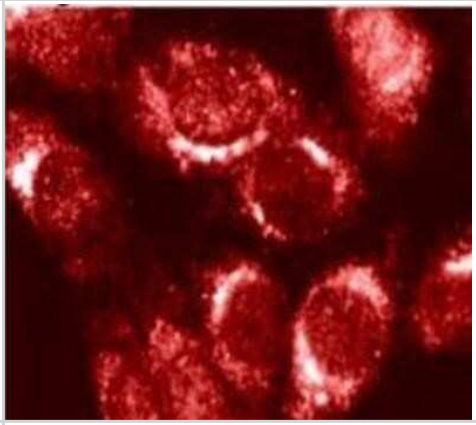
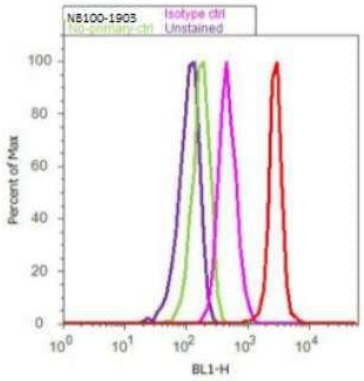
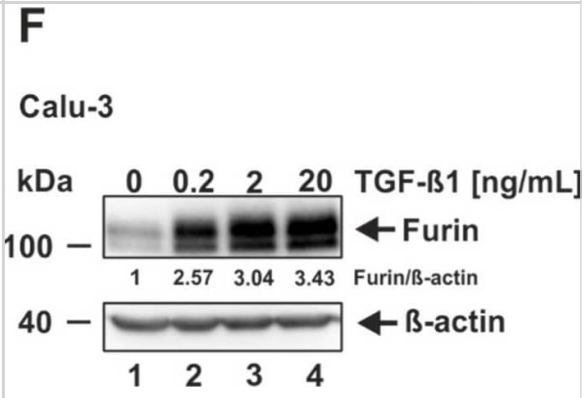
Furin Antibody

Product Information	
Unit Size	100 uL
Concentration	2 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA

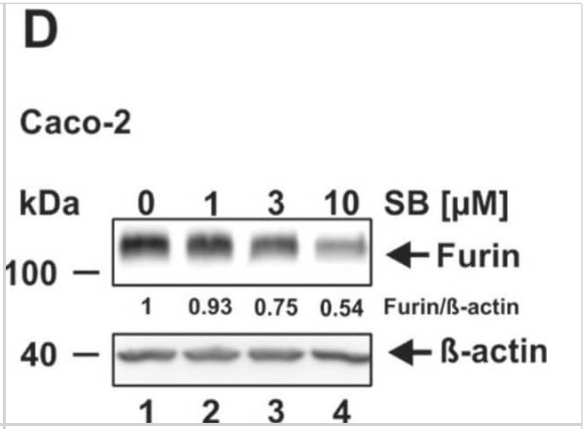
Product Description	
Description	Novus Biologicals Rabbit Furin Antibody (NB100-1903) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Furin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5045
Gene Symbol	FURIN
Species	Human, Mouse, Rat, Porcine, Canine, Hamster, Primate
Reactivity Notes	Hamster reactivity reported in scientific literature (PMID: 16030016). Porcine reactivity reported in scientific literature (PMID: 14581457). Rat reactivity reported in scientific literature (PMID: 11696560). Primate reactivity reported in scientific literature (PMID: 11799113).
Marker	TGN Marker
Specificity/Sensitivity	Detects Furin convertase from canine and mouse cells as well as transfected human Furin. This does not detect endogenous Furin from BSC-40, HeLa, J774A.1 BPAEC, or CHO cells nor from rat skeletal muscle, spleen, kidney, ovary, testes, heart, or brain tissues.
Immunogen	Synthetic peptide corresponding to residues R(780) G E R T A F I K D Q S A L (793) of human Furin.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Block/Neutralize
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 3 - 5 ug, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:10 - 1:500, Block/Neutralize
Application Notes	Blocking usage was reported in scientific literature (PMID: 11741999).

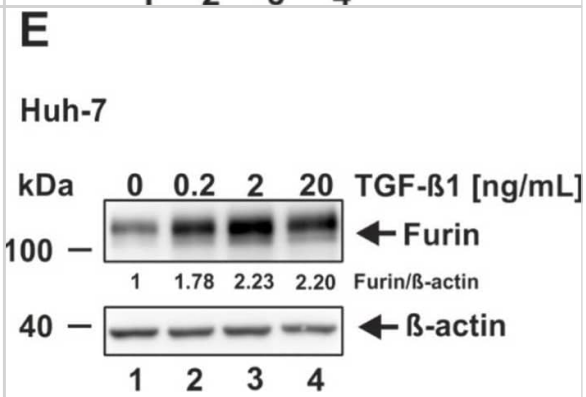
Images

Western Blot: Furin Antibody [NB100-1903] - Analysis was performed on membrane enriched extracts (30 ug lysate) of HeLa (Lane 1), HEK 293 (Lane 2), K-562 (Lane 3), SH-SY5Y (Lane 4) and 10uL conditioned media from HeLa cell line (Lane 5).	
Immunocytochemistry/Immunofluorescence: Furin Antibody [NB100-1903] - Immunolocalization of endogenous furin in mouse 3T3 cells.	
Flow Cytometry: Furin Antibody [NB100-1903] - Flow cytometry analysis of Furin Convertase was done on HeLa cells. Cells were fixed with 70% ethanol for 10 minutes, permeabilized with 0.25% Triton (R) X-100 for 20 minutes, and blocked with 5% BSA for 30 minutes at room temperature. Cells were labeled with Furin Convertase Rabbit Polyclonal Antibody or with rabbit isotype control (pink histogram) at 3-5 ug/million cells in 2.5% BSA. After incubation at room temperature for 2 hours, the cells were labeled with Alexa Fluor (R) 488 Goat Anti-Rabbit Secondary Antibody (A11008) at a dilution of 1:400 for 30 minutes at room temperature. The representative 10, 000 cells were acquired and analyzed for each sample using an Attune (R) Acoustic Focusing Cytometer. The purple histogram represents unstained control cells and the green histogram represents no-primary-antibody control.	
Induction of furin expression by TGF-ß1. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) Caco-2, (E) Huh-7, and (F) Calu-3 were incubated for 18 h with indicated concentrations of TGF-ß1 or the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL TGF-ß1). Western blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of TGF-ß1 (0 ng/mL) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Decrease of furin expression by the ALK5 inhibitor SB431542. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) CaCo-2, (E) Huh-7, and (F) Calu-3 were incubated for 24 h with the indicated concentrations of SB431542 (SB) or the solvent control DMSO (0 uM). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without SB (0 uM) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Induction of furin expression by TGF-ß1. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) Caco-2, (E) Huh-7, and (F) Calu-3 were incubated for 18 h with indicated concentrations of TGF-ß1 or the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL TGF-ß1). Western blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of TGF-ß1 (0 ng/mL) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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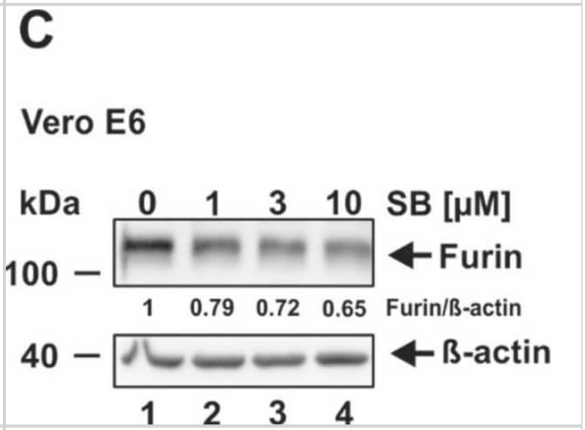

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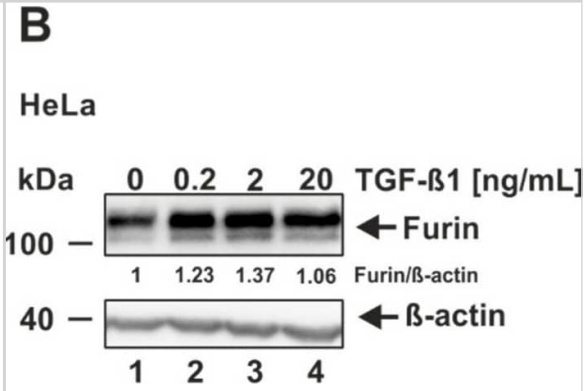
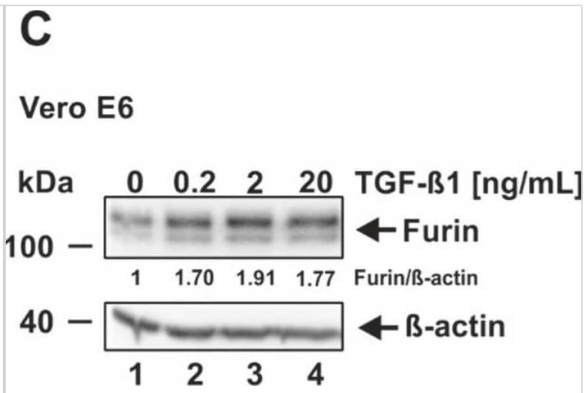
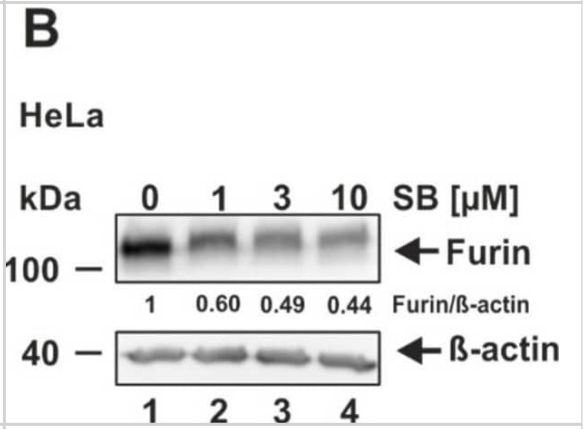
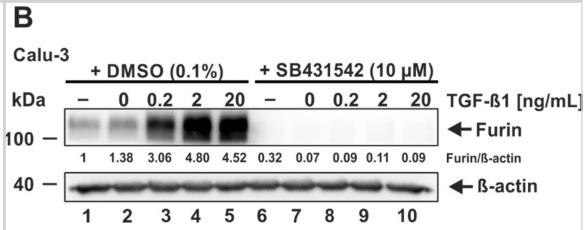
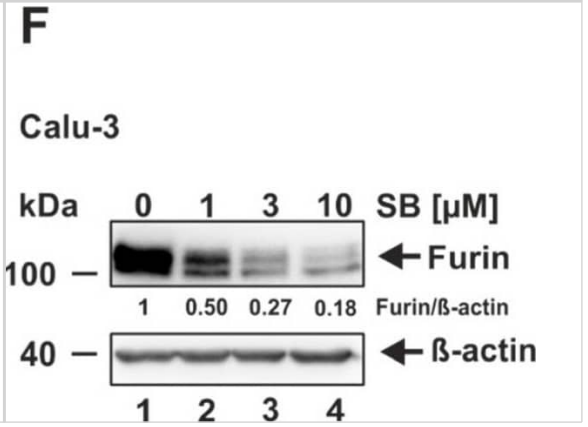
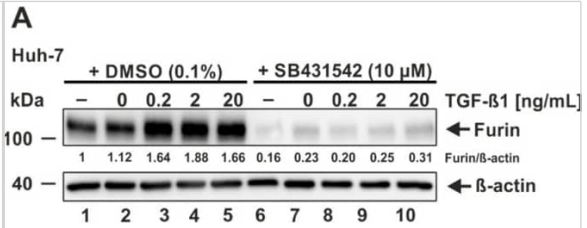
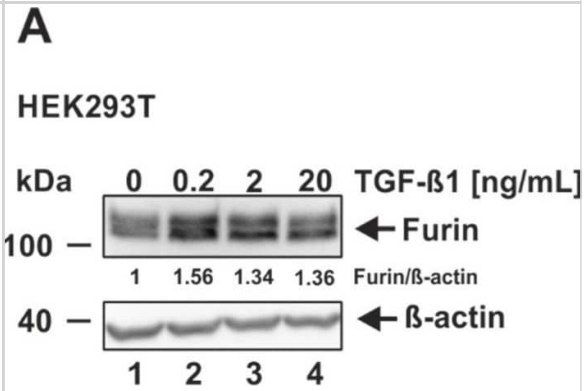
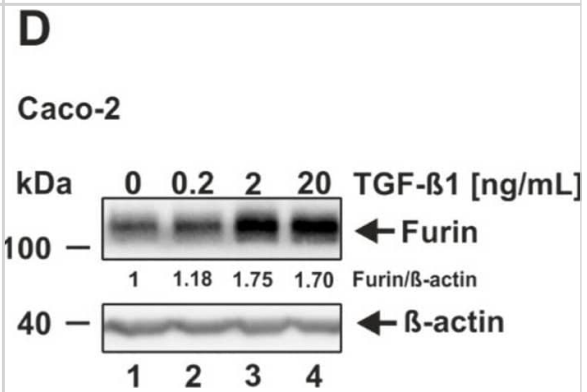
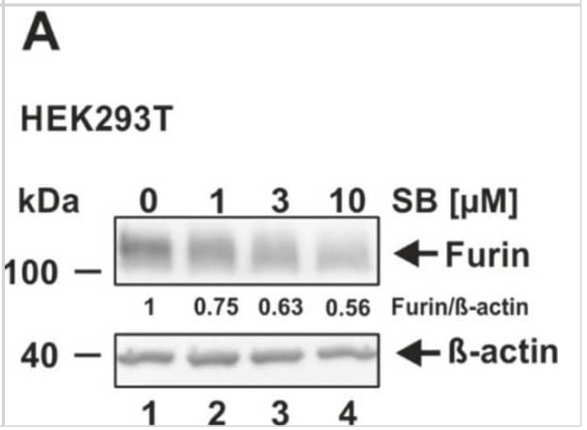


Induction of furin expression by TGF-ß1. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) Caco-2, (E) Huh-7, and (F) Calu-3 were incubated for 18 h with indicated concentrations of TGF-ß1 or the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL TGF-ß1). Western blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of TGF-ß1 (0 ng/mL) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Decrease of furin expression by the ALK5 inhibitor SB431542. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) CaCo-2, (E) Huh-7, and (F) Calu-3 were incubated for 24 h with the indicated concentrations of SB431542 (SB) or the solvent control DMSO (0 uM). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without SB (0 uM) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Prevention of TGF-ß1-induced furin expression by the ALK5 inhibitor SB431542. (A) Huh-7 and (B) Calu-3 were incubated for 24 h with 10 uM SB431542 or the solvent control DMSO and subsequently treated for 18 h with the indicated concentrations of TGF-ß1, the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL), or were left untreated (−). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of SB431542 and TGF-ß1 were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Decrease of furin expression by the ALK5 inhibitor SB431542. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) CaCo-2, (E) Huh-7, and (F) Calu-3 were incubated for 24 h with the indicated concentrations of SB431542 (SB) or the solvent control DMSO (0 uM). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without SB (0 uM) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Prevention of TGF-ß1-induced furin expression by the ALK5 inhibitor SB431542. (A) Huh-7 and (B) Calu-3 were incubated for 24 h with 10 uM SB431542 or the solvent control DMSO and subsequently treated for 18 h with the indicated concentrations of TGF-ß1, the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL), or were left untreated (−). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of SB431542 and TGF-ß1 were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Induction of furin expression by TGF-ß1. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) Caco-2, (E) Huh-7, and (F) Calu-3 were incubated for 18 h with indicated concentrations of TGF-ß1 or the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL TGF-ß1). Western blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of TGF-ß1 (0 ng/mL) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Induction of furin expression by TGF-ß1. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) Caco-2, (E) Huh-7, and (F) Calu-3 were incubated for 18 h with indicated concentrations of TGF-ß1 or the solvent control 4 mM HCl 0.1% bovine serum albumin (0 ng/mL TGF-ß1). Western blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without the addition of TGF-ß1 (0 ng/mL) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Decrease of furin expression by the ALK5 inhibitor SB431542. (A) HEK293T, (B) HeLa, (C) Vero E6, (D) CaCo-2, (E) Huh-7, and (F) Calu-3 were incubated for 24 h with the indicated concentrations of SB431542 (SB) or the solvent control DMSO (0 uM). Western Blot analyses were performed to detect furin and ß-actin. Protein levels of furin and ß-actin were quantified via densitometric analyses utilizing the Image Lab Software. Protein levels without SB (0 uM) were set to 1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35746781), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

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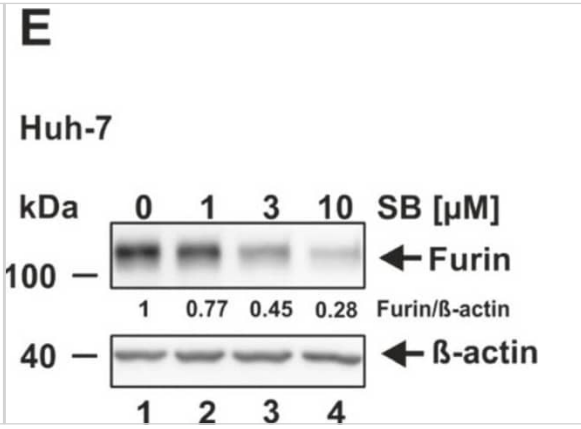

Publications

Minjin Jeong, Karen E. Ocwieja, Dongjun Han, P. Ashley Wackym, Yichen Zhang, Alyssa Brown, Cynthia Moncada, Andrea Vambutas, Theodore Kanne, Rachel Crain, Noah Siegel, Valerie Leger, Felipe Santos, D. Bradley Welling, Lee Gehrke, Konstantina M. Stankovic Direct SARS-CoV-2 infection of the human inner ear may underlie COVID-19-associated audiovestibular dysfunction Communications Medicine 2021-10-29 [PMID: 34870285]

Mezger MC, Conzelmann C, Weil T et al. Inhibitors of Activin Receptor-like Kinase 5 Interfere with SARS-CoV-2 S-Protein Processing and Spike-Mediated Cell Fusion via Attenuation of Furin Expression Viruses 2022-06-15 [PMID: 35746781] (WB, Human, Primate)

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Products Related to NB100-1903

NBL1-10860	Furin Overexpression Lysate
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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