

Product Datasheet

Serpin A1/alpha 1-Antitrypsin Antibody - BSA Free NB600-602-0.1mg

Unit Size: 0.1 mg

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NB600-602-0.1mg

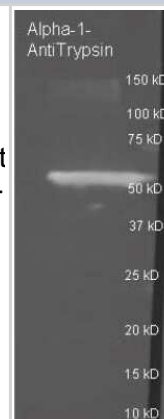
Serpine A1/alpha 1-Antitrypsin Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG
Purity	Multi-step
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified a1-Anti-Trypsin [Human Plasma]</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Goat
Gene ID	5265
Gene Symbol	SERPINA1
Species	Human, Mouse
Reactivity Notes	Cross reactivity against Serpin A1/alpha 1-Antitrypsin from other sources is unknown.
Specificity/Sensitivity	Cross reactivity against Serpin A1/alpha 1-Antitrypsin from other sources is unknown.
Immunogen	Serpine A1/alpha 1-Antitrypsin [Human Plasma] (Uniprot: P01009)
Product Application Details	
Applications	Western Blot, ELISA, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, ELISA 1:20000-1:100000, Immunoprecipitation 1:10 - 1:500
Application Notes	This product has been tested by ELISA and western blot. This product has been assayed against 1.0 ug of Alpha-1-Anti-trypsin [Human Plasma] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Goat) and (ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:2,000 to 1:10,000 of the reconstitution concentration is suggested.

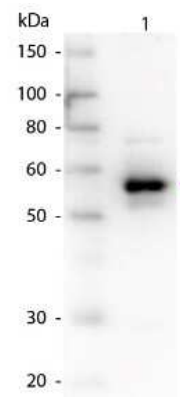


Images

Western Blot: Serpin A1/alpha 1-Antitrypsin Antibody [NB600-602] - Analysis using HRP conjugate of NB600-602. Lane 1: reduced Alpha-1anti-Trypsin. Lane 2: none. Load: 1ug per lane. Primary antibody: Alpha-1-Anti-Trypsin antibody at 1:3000 for overnight at 4C. Secondary antibody: Dylight 488 conjugated Donkey anti goat secondary antibody at 1:10,000 for 1.5 hr at RT. Block: incubated with blocking buffer for Alpha-1-AntiTrypsin. Other band(s): none.



Western Blot: Serpin A1/alpha 1-Antitrypsin Antibody [NB600-602] - Lane 1: Albumin depleted human serum. Lane 2: none. Load: 10 ug per lane. Primary antibody: none. Secondary antibody: Peroxidase goat secondary antibody at 1:1,000 for 60 min at RT. Block: incubated with blocking buffer for 30 min at RT. Predicted/Observed size: 52 kDa, 52 kDa for Alpha-1-Anti-Trypsin. Other band(s): none



Western Blot: Serpin A1/alpha 1-Antitrypsin Antibody [NB600-602] - Lane 1: Alpha-1anti-Trypsin under reducing conditions. Lane 2: none. Load: 1 ug per lane. Primary antibody: Alpha-1anti-Trypsin antibody at 1:3000 for overnight at 4C. Secondary antibody: Dylight 488 conjugated Donkey anti goat secondary antibody at 1:10,000 for 45 min at RT. Block: incubated with blocking buffer for alpha-1 Anti-Trypsin. Other band(s): none



Western Blot: Serpin A1/alpha 1-Antitrypsin Antibody [NB600-602] - Lane 1: molecular weight. Lane 2: Alpha-1-Anti-Trypsin (red), Rabbit anti-Transferrin, and Mouse-a-GST were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 35 ug per lane. Primary antibody: Each primary antibody at 1:1000 for overnight at 4C. Secondary antibody: DyLight549 Donkey anti-Rabbit IgG (green), DyLight 488 Donkey anti-Mouse IgG (blue), and DyLight 649 Donkey anti-Goat IgG (red) secondary antibody at 1:10,000 for 30 min at RT. Block: at 30 min RT



Western Blot: Serpin A1/alpha 1-Antitrypsin Antibody [NB600-602] - Lane 1: molecular weight. Lane 2: Human transferrin (green); Alpha 1 anti trypsin (red); and Human IgG (Blue) in a multiplex fluorescent western blot of human serum. Load: 35 ug per lane. Primary antibody: Each primary antibody was diluted to 1:1000 for overnight at 4C. Secondary antibody: Rabbit IgG (H&L) Antibody DyLight 649 Conjugated (green), Goat IgG (H&L) Antibody DyLight 549 Conjugated (red), Mouse IgG (H&L) Antibody DyLight 488 Conjugated (blue) secondary antibody at 1:10,000 for 1hr at 4 degrees. Block: IRdye blocking buffer overnight at 4C



Publications

Neidleman JA, Chen JC, Kohgadai N et al. Mucosal stromal fibroblasts markedly enhance HIV infection of CD4+ T cells. PLoS Pathog. 2017-02-01 [PMID: 28207890] (ELISA, Human)

Dougan SK, Hu CC, Paquet ME et al. Derlin-2-deficient mice reveal an essential role for protein dislocation in chondrocytes Mol Cell Biol 2011-03-01 [PMID: 21220515] (WB, IP, Mouse)

Kido J, Bando M, Hiroshima Y et al. Analysis of proteins in human gingival crevicular fluid by mass spectrometry J Periodontal Res 2012-08-01 [PMID: 22220998] (WB, Human)

Hu C-CA, Dougan SK, Winter SV et al. Subtilase cytotoxin cleaves newly synthesized BiP and blocks antibody secretion in B lymphocytes. J Exp Med;206(11):2429-2440. 2009-01-01 [PMID: 19837942]

Klemm EJ, Spooner E, Ploegh HL. Dual Role of Ancient Ubiquitous Protein 1 (AUP1) in Lipid Droplet Accumulation and Endoplasmic Reticulum (ER) Protein Quality Control. J Biol Chem;286(43):37602-37614. 2011-10-28 [PMID: 21857022]



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Products Related to NB600-602-0.1mg

NBL1-15833	Serpin A1/alpha 1-Antitrypsin Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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