Product Datasheet

S1P1/EDG-1 Antibody NB120-11424

Unit Size: 100 ug

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

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NB120-11424

S1P1/EDG-1 Antibody

Product Information	
Unit Size	100 ug
Concentration	1 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, 1 mg/mL BSA
Product Description	
Host	Rabbit
Gene ID	1901
Gene Symbol	S1PR1
Species	Human, Mouse, Rat
Specificity/Sensitivity	NB120-11424 detects S1P1 protein (EDG1) in transfected human cell samples. This shows no cross-reactivity to S1P3.
Immunogen	Synthetic peptide corresponding to residues $S(359) H P Q K D D G D N P E T I$ (372) of mouse S1P1.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 2 ug/mL, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:10 - 1:500
Application Notes	This antibody has successfully been used in immunofluorescence, immunohistochemistry, immunoprecipitation and Western blot procedures. By Western blot, this antibody detects an ~44 kDa protein representing recombinant S1P1 from transfected HEK293 cells. Immunofluorescence data demonstrates that S1P1 is localized to the plasma membrane after staining with NB120-11424.

Images

Western Blot: S1P1/EDG-1 Antibody [NB120-11424] - Gene and protein expression of components of the PAR-1/SphK/S1P axis. Western blot detection and quantification of the protein expression of PAR-1, S1PR1, SphK1, and SphK2 in astrocytes treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only), for 6 h. The data are presented as the mean +/- SD (n = 3), *p < 0.05. Image collected and cropped by CiteAb from the following publication (www.frontiersin.org/article/10.3389/fnmol.2020.00114/full) licensed under a CC-BY license.











Western Blot: S1P1/EDG-1 Antibody [NB120-11424] - Gene & protein expression of components of the PAR-1/SphK/S1P axis. qRT-PCR analysis of the gene expression of (A) PAR-1, (B) S1PR1, (C) SphK1, & (D) SphK2 in astrocytes treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only), for 0 h, 1 h, or 6 h. Western blot detection & quantification of the protein expression of PAR-1, S1PR1, SphK1, & SphK2 in astrocytes treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only), for (E) 0 h, (F) 1 h, or (G) 6 h. The data are presented as the mean \pm SD (n = 3), *p < 0.05. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32694981), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: S1P1/EDG-1 Antibody [NB120-11424] - Expression of sphingosine-1-phosphate (S1P), interleukin (IL)-1β, & protease-activated receptor-1 (PAR-1) in isolated astrocytes. (A) Isolated & purified astrocytes were identified by bright-field microscopy & immunofluorescence for glial fibrillary acid protein (GFAP; red). Nuclei (DAPI) were labeled in blue. Scale bar = 100 µm. (B) Western blot & quantitative reverse transcription polymerase chain reaction (qRT-PCR) of the protein & mRNA expression, respectively, of S1P 0, 1, & 6 h after astrocytes were treated with lipopolysaccharide (LPS) or thrombin & Dabigatran (Dab) or PAR-1-inh (LPS only). (D) gRT-PCR & (E) enzymelinked immunosorbent assay (ELISA) of the mRNA expression & secretion, respectively, of IL-1 β 0, 1, & 6 h after astrocytes were treated with LPS or thrombin & Dab or PAR-1-inh (LPS only). (F) Immunofluorescence of astrocytes & quantification of relative mean integrated optical density (IOD; green fluorescence). PAR-1 was stained in green & nuclei (DAPI) were stained in blue. Scale bar = 100 μ m. For (B–F), data are presented as the mean \pm SD (n = 3). *p < 0.05; #p < 0.05 vs. the same group at 0 h; &p < 0.05 vs. the same group at 1 h. ns. not significant. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32694981), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Goel K, Schweitzer KS, Serban KA et al. Pharmacological sphingosine-1 phosphate receptor 1 targeting in cigarette smoke-induced emphysema in mice American journal of physiology. Lung cellular and molecular physiology 2022-04-12 [PMID: 35412858] (IF/IHC, Mouse)

Chen R, Cao X, et al. Dabigatran Suppresses PAR-1/SphK/S1P Activation of Astrocytes in Experimental Autoimmune Encephalomyelitis Model. Front Mol Neurosci 2020-07-23 [PMID: 32694981] (ICC/IF, WB, Mouse)

Goel K, Beatman E, Egersdorf N et al. Sphingosine 1 Phosphate (S1P) Receptor 1 Is Decreased in Human Lung Microvascular Endothelial Cells of Smokers and Mediates S1P Effect on Autophagy Cells 2021-05-14 [PMID: 34068927] (ICC/IF, IHC-P, WB, Human, Mouse)

Awojoodu AO, Ogle ME, Sefcik LS et al. Sphingosine 1-phosphate receptor 3 regulates recruitment of antiinflammatory monocytes to microvessels during implant arteriogenesis. Proc Natl Acad Sci U S A. 2013-08-20 [PMID: 23918395] (WB, Mouse)



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Products Related to NB120-11424

H00001901-Q01-10ug	Recombinant Human S1P1/EDG-1 GST (N-Term) Protein
NBP2-24891	Rabbit IgG Isotype Control
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]

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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