

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 |

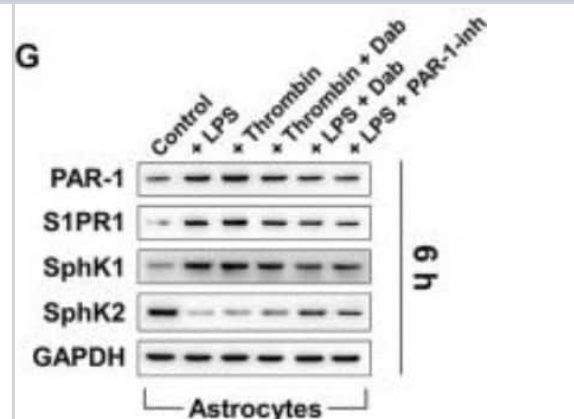
| Product Description | |
|--------------------------------|---|
| Description | Novus Biologicals Rabbit S1P1/EDG-1 Antibody (NB120-11424) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-S1P1/EDG-1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, 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. |

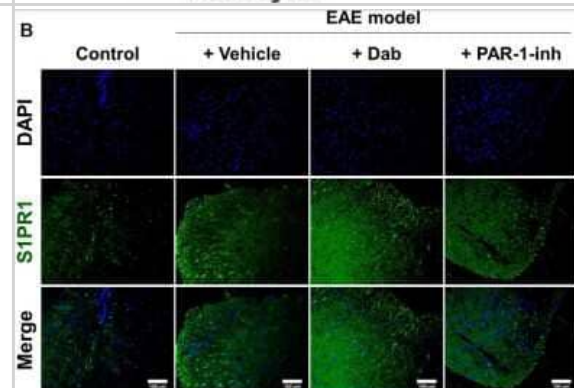


Images

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 \pm 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.



Immunocytochemistry/Immunofluorescence: S1P1/EDG-1 Antibody [NB120-11424] - Immunofluorescence of PAR-1 and S1PR1 in spinal cord tissues of mice induced by EAE. Mice subjected to EAE modeling were treated with vehicle (physiological saline), Dab, or PAR-1-inh. Tissues were stained for (B) S1PR1 in green and nuclei (DAPI) in blue. Scale bar = 100 μ m. Green fluorescence was quantified by measuring the relative mean IOD. The data are presented as the mean \pm SD (n = 6), *p < 0.05. Image collected and cropped by CiteAb from the following publication (www.frontiersin.org/articles/10.3389/fnmol.2020.00114/full) licensed under a CC-BY license.

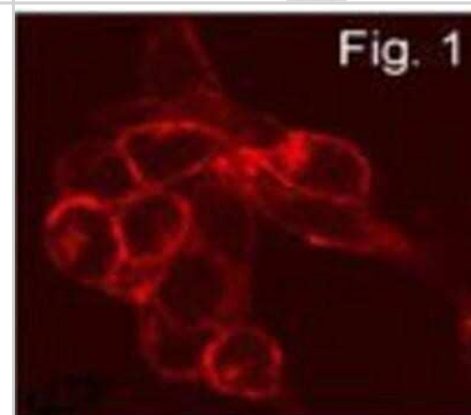


Western Blot: S1P1/EDG-1 Antibody [NB120-11424] - Analysis of S1P1 from transfected HEK293 cell lysate.

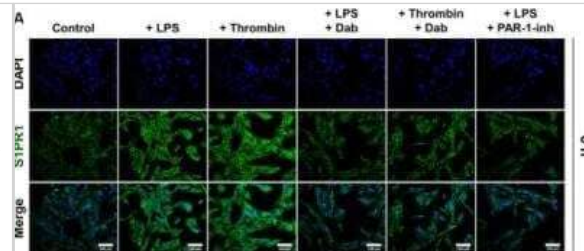
Fig. 2



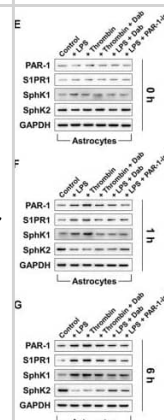
Immunocytochemistry/Immunofluorescence: S1P1/EDG-1 Antibody [NB120-11424] - Immunofluorescence staining of S1P1 in transfected CCL39 cells using NB120-11424.



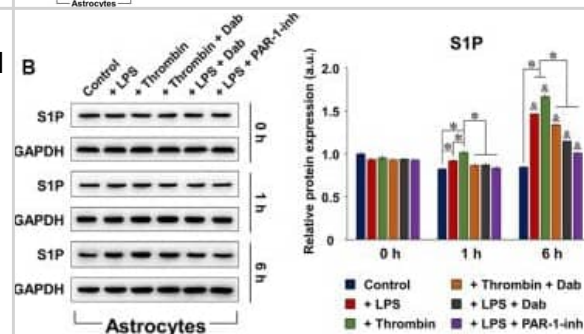
Immunocytochemistry/Immunofluorescence: S1P1/EDG-1 Antibody [NB120-11424] - Immunofluorescence of proteins related to S1P1/EDG-1 signaling in astrocytes. Astrocytes were treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only) for 6 h. Cells were stained for S1P1/EDG-1 receptor 1 in green and nuclei (DAPI) in blue. Scale bar = 100 μ m. Green fluorescence was quantified by measuring the relative mean IOD. The data are presented as the mean \pm 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.



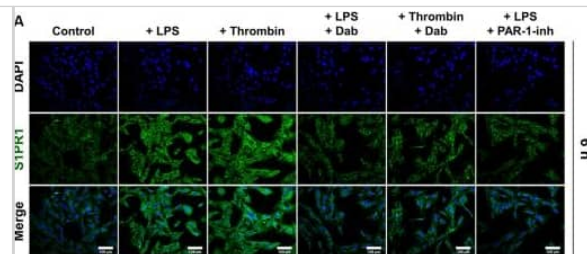
Western Blot: S1P1/EDG-1 Antibody [NB120-11424] - Gene & protein expression of components of the PAR-1/SphK/S1P axis. qRT-PCR analysis of the gene expression of (A) PAR-1, (B) S1PR1, (C) SphK1, & (D) SphK2 in astrocytes treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only), for 0 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)-1 β , & 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 μ m. (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) qRT-PCR & (E) enzyme-linked 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.



Immunofluorescence of proteins related to S1P signaling in astrocytes. Astrocytes were treated with LPS or thrombin, with or without Dab or PAR-1-inh (LPS only) for 6 h. Cells were stained for (A) S1P receptor 1 (S1PR1), (B) sphingosine kinase (SphK1), and (C) SphK2 in green and nuclei (DAPI) in blue. Scale bar = 100 μ m. Green fluorescence was quantified by measuring the relative mean IOD. The data are presented as the mean \pm SD (n = 3), *p < 0.05. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32694981>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Taylor, OB;DeGroff, N;El-Hodiri, HM;Gao, C;Fischer, AJ; Sphingosine-1-phosphate signaling regulates the ability of Müller glia to become neurogenic, proliferating progenitor-like cells *eLife* 2025-03-06 [PMID: 40047533]

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)

Awojodu AO, Ogle ME, Sefcik LS et al. Sphingosine 1-phosphate receptor 3 regulates recruitment of anti-inflammatory 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

| | |
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| 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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