

# Product Datasheet

## S1P2/EDG-5/S1PR2 Antibody - BSA Free NBP2-26691

Unit Size: 0.1 mg

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

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**NBP2-26691****S1P2/EDG-5/S1PR2 Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS

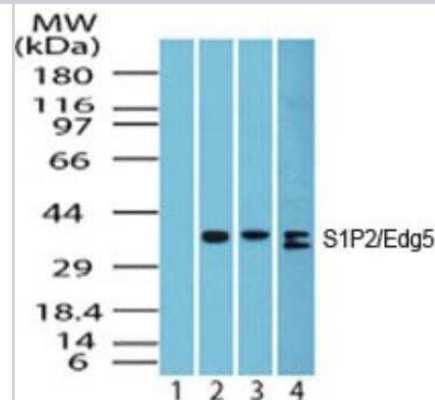
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit S1P2/EDG-5/S1PR2 Antibody - BSA Free (NBP2-26691) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-S1P2/EDG-5/S1PR2 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	9294
<b>Gene Symbol</b>	S1PR2
<b>Species</b>	Human, Mouse, Rat, Primate
<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 325-343 of human S1P2/Edg5 was used as immunogen, GenBank no. NP_004221.3.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin reported in scientific literature (PMID 25621765)

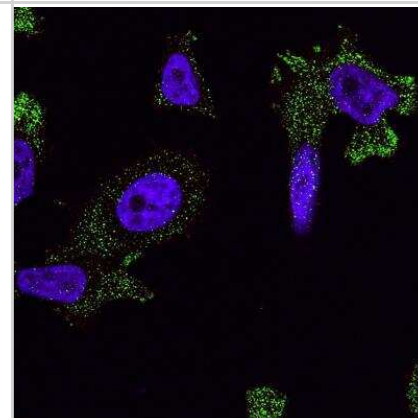


## Images

Western Blot: S1P2/EDG-5/S1PR2 Antibody [NBP2-26691] - Analysis of S1P2/Edg5 in heart lysate; Lane 1 shows pre-immune sera; Lanes 2, 3 and 4 show this antibody tested on human heart (1 ug/ml), mouse heart (1 ug/ml) and rat heart (2 ug/ml) lysate, respectively.



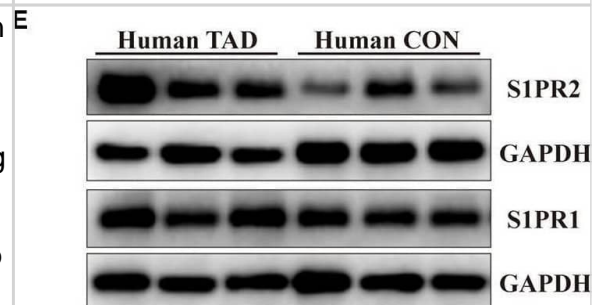
Immunocytochemistry/Immunofluorescence: S1P2/EDG-5/S1PR2 Antibody [NBP2-26691] - Human PC3 prostate cancer cell line. Primary antibody NBP2-26691 at 1:200, secondary antibody Alexa488, Hoechst 33342 used for nuclear staining. Image from verified customer review.



Increased S1PR2 accumulation in mouse TAD lesions. Representative immunohistochemistry images and the corresponding analysis of mouse S1PR2 (A,C) and S1PR1 (B,D) in TAD lesions (n = 6) and control thoracic aorta (n = 6). Representative immunoblot and the corresponding analysis of mouse S1PR2 (E,F) and S1PR1 (E,G) in TAD lesions (n = 6) and control thoracic aorta (n = 6). Scale: 200  $\mu$ m, inset: 50  $\mu$ m. Data are expressed as means  $\pm$  SD. Image collected and cropped by CiteAb from the following open publication (<https://www.frontiersin.org/articles/10.3389/fcvm.2021.748486/full>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Increased Sphingosine-1-phosphate receptor 2 (S1PR2) accumulation in human thoracic aortic dissection (TAD) lesions. Representative immunohistochemistry images and the corresponding analysis of human S1PR2 (A,C) and S1PR1 (B,D) in TAD lesions (n = 6) and normal thoracic aorta (n = 3). Representative immunoblot and the corresponding analysis of human S1PR2 (E,F) and S1PR1 (E,G) in TAD lesions (n = 10) and normal thoracic aorta (n = 6). Scale: 200  $\mu$ m, inset: 50  $\mu$ m. Data are expressed as means  $\pm$  SD. Image collected and cropped by CiteAb from the following open publication (<https://www.frontiersin.org/articles/10.3389/fcvm.2021.748486/full>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Janneh AH, Kassir MF, Atilgan FC et al. Crosstalk between pro-survival sphingolipid metabolism and complement signaling induces inflammasome-mediated tumor metastasis *Cell Reports* 2022-12-06 [PMID: 36476873] (Western Blot, Mouse)

Jiang H, Huang T, Yu Y et al. Characterization of a S1PR2 specific 11C-labeled radiotracer in streptozotocin-induced diabetic murine model *Nuclear Medicine and Biology* 2023-07-01 [PMID: 37556928] (IHC-Fr, Mouse)

Xue J, Lin J, Liu Z et al. Alleviating early demyelination in ischaemia/reperfusion by inhibiting sphingosine-1-phosphate receptor 2 could protect visual function from impairment *Brain pathology (Zurich, Switzerland)* 2023-05-04 [PMID: 37142391] (IHC, WB, Mouse)

Xiao P, Gu J, Xu W et al. RTN4/Nogo-A-S1PR2 negatively regulates angiogenesis and secondary neural repair through enhancing vascular autophagy in the thalamus after cerebral cortical infarction *Autophagy* 2022-03-09 [PMID: 35263212] (IF/IHC, Rat)

Pan G, Liao M, Dai Y et al. Inhibition of Sphingosine-1-Phosphate Receptor 2 Prevents Thoracic Aortic Dissection and Rupture *Frontiers in Cardiovascular Medicine* 2021-12-17 [PMID: 34977175] (ICC/IF, IF/IHC, WB, Human)

Tran HB, Maiolo S, Harper R Et al. Dysregulated zinc and sphingosine-1-phosphate signaling in pulmonary hypertension: Potential effects by targeting of bone morphogenetic protein receptor type 2 in pulmonary microvessels *Cell biology international* 2021-08-04 [PMID: 34347342] (ICC/IF, Rat)

Gu Y, Shea J, Slattum G et al. Defective apical extrusion signaling contributes to aggressive tumor hallmarks *Elife*. 2015-02-11 [PMID: 25621765] (IHC-P, Human)

### Details:

S1P2/EDG-5/S1PR2 antibody used for IHC-P staining of formalin-fixed, paraffin-embedded tissue sections of Human Pancreatic Ductal Adenocarcinomas /PDACs - heat induced antigen retrieval with 10 mM sodium citrate for 20 minutes, blocking with 5% BSA/0.5% Tween-20 in PBS for 4 hours, primary incubated for ON at 4C, detection with Alexa-568 anti-rabbit secondary antibody (Figure 9A).

Kempf A, Tews B, Arzt ME et al. The sphingolipid receptor S1PR2 is a receptor for Nogo-a repressing synaptic plasticity. *PLoS Biol.* 2014-01-01 [PMID: 24453941] (WB, Mouse)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-26691**

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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

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### **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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