

# Product Datasheet

## SGK1 Antibody - BSA Free NBP1-76578

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 1

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**NBP1-76578**

SGK1 Antibody - BSA Free

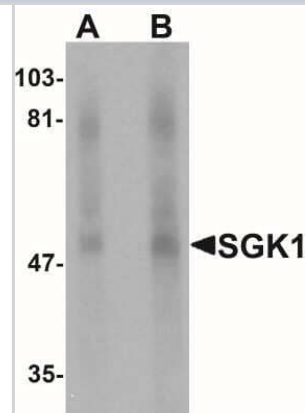
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	6446
Gene Symbol	SGK1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (89%), Chicken (84%), Rabbit (89%)
Specificity/Sensitivity	SGK1 antibody is predicted to not cross-react with other SGK protein family members. At least five isoforms are known to exist
Immunogen	Antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human SGK1. The immunogen is located within amino acids 370 - 420 of SGK1. Amino Acid Sequence: PNDLRHFDPEFTEPPVPN

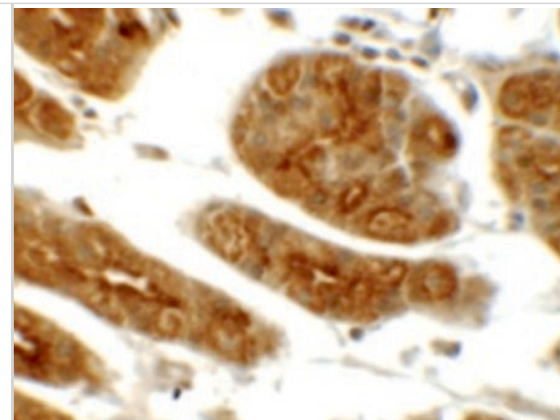
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 1:10-1:500

**Images**

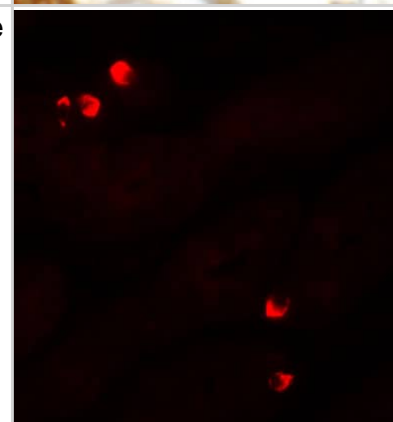
Western Blot: SGK1 Antibody [NBP1-76578] - Western blot analysis of SGK1 in human stomach tissue lysate with SGK1 antibody at (A) 1 and (B) 2 ug/mL.



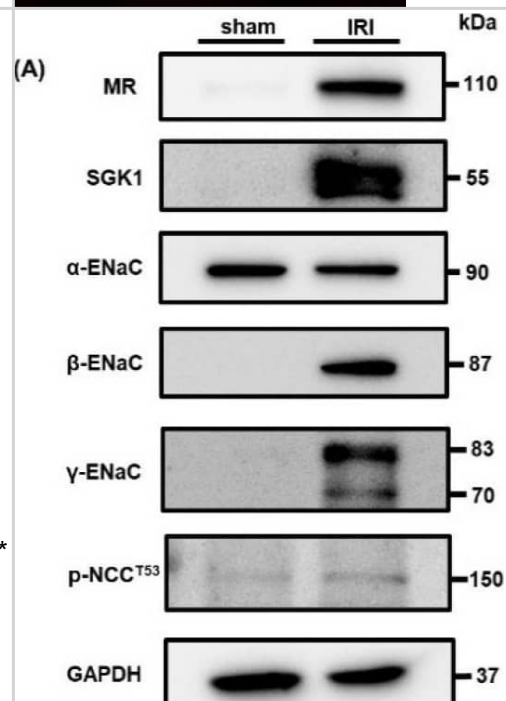
Immunohistochemistry: SGK1 Antibody - BSA Free [NBP1-76578] - Immunohistochemistry of SGK1 in human stomach tissue with SGK1 antibody at 5 ug/mL.



Immunocytochemistry/ Immunofluorescence: SGK1 Antibody - BSA Free [NBP1-76578] - Immunofluorescence of SGK1 in human stomach tissue with SGK1 antibody at 20 ug/mL.



Expression of mineralocorticoid receptor increases in rats 7 days after ischemia–reperfusion injury. Sprague Dawley rats underwent sham or ischemia–reperfusion injury (IRI) surgeries 14 days after right nephrectomy. IRI was induced by clamping the left renal artery. The rats were euthanized on day 7 after the operations, and kidney tissues were collected: (A) Western blots show expression levels of the mineralocorticoid receptor (MR), serum and glucocorticoid-regulated kinase 1 (SGK1),  $\alpha$ -epithelial sodium channel ( $\alpha$ -ENaC),  $\beta$ -ENaC, full-length  $\gamma$ -ENaC, cleaved  $\gamma$ -ENaC, phospho-NaCl cotransporter channel (Thr53) (p-NCCT53), and glyceraldehyde 3-phosphate dehydrogenase (GAPDH) in kidneys from sham- and IRI-surgery rats. GAPDH was used as a loading control; (B) relative protein levels of MR, SGK1,  $\alpha$ -ENaC,  $\beta$ -ENaC, full-length  $\gamma$ -ENaC, cleaved  $\gamma$ -ENaC, and p-NCCT53 in the sham and IRI groups. Band intensities were normalized to GAPDH; (C) plasma aldosterone concentrations in the sham and IRI groups. Values are presented as mean  $\pm$  standard error ( $n = 5$  rats per group). Data were analyzed by Student's t-test for comparisons between two groups. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35887178>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Matsumoto T, Doi S, Nakashima A et al. Upregulation of Mineralocorticoid Receptor Contributes to Development of Salt-Sensitive Hypertension after Ischemia-Reperfusion Injury in Rats International journal of molecular sciences 2022-07-15 [PMID: 35887178] (WB, Rat)

Details:

Dilutions: 1:2500



### **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 NBP1-76578**

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NBP1-76578PEP	SGK1 Antibody Blocking Peptide
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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