

# Product Datasheet

## SDHB Antibody - BSA Free

### NBP1-87069

Unit Size: 0.1 ml

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

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**NBP1-87069**

SDHB Antibody - BSA Free

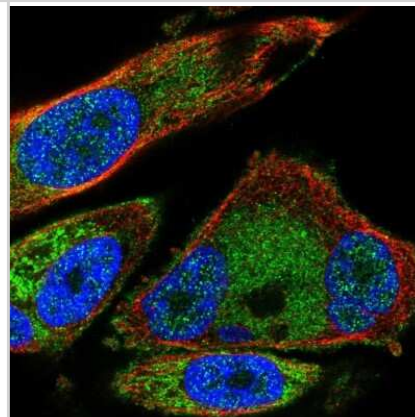
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	28 kDa

Product Description	
Description	Novus Biologicals Rabbit SDHB Antibody - BSA Free (NBP1-87069) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-SDHB Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6390
Gene Symbol	SDHB
Species	Human, Mouse
Marker	Mitochondria Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EGKQQYLQSIEREKLDGLYECILCACSTSCPSYWWNGDKYLGPAVLMQAY RWMIDSRDDFTEERLAKLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKMM ATY

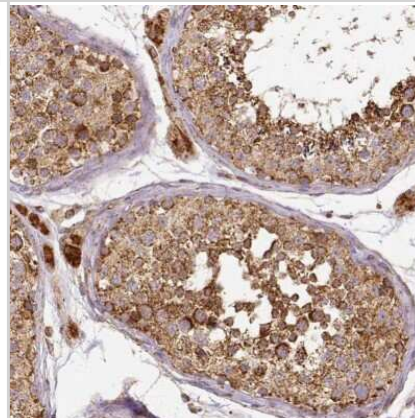
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000, Knockdown Validated
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 34 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

## Images

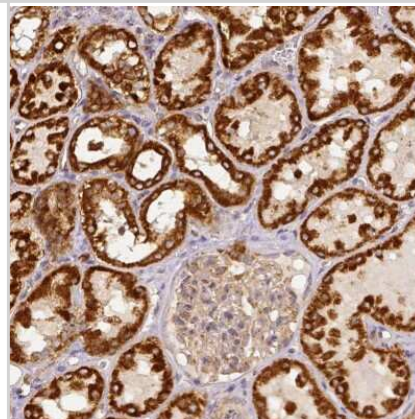
Immunocytochemistry/Immunofluorescence: SDHB Antibody [NBP1-87069] - Staining of human cell line PC-3 shows localization to nucleoplasm, plasma membrane & mitochondria. Antibody staining is shown in green.



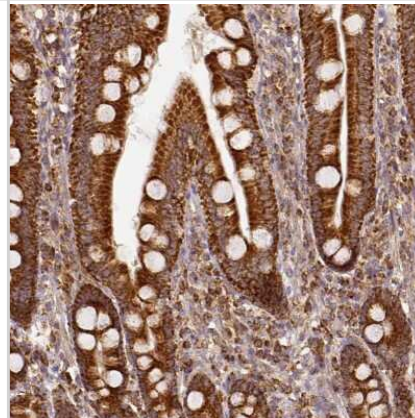
Immunohistochemistry-Paraffin: SDHB Antibody [NBP1-87069] - Immunohistochemical staining of human testis shows moderate to strong granular cytoplasmic positivity in cells in seminiferous ducts and Leydig cells.



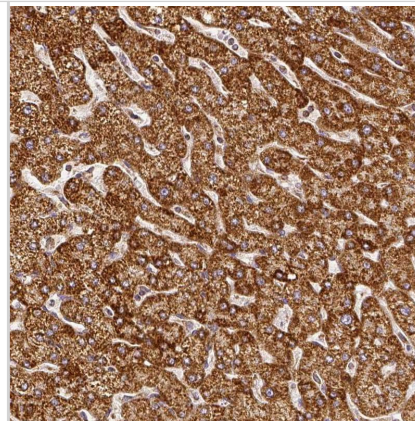
Immunohistochemistry-Paraffin: SDHB Antibody [NBP1-87069] - Immunohistochemical staining of human kidney shows moderate to strong granular cytoplasmic positivity in cells in tubules.



Immunohistochemistry-Paraffin: SDHB Antibody [NBP1-87069] - Immunohistochemical staining of human duodenum shows moderate to strong granular cytoplasmic positivity in glandular cells.



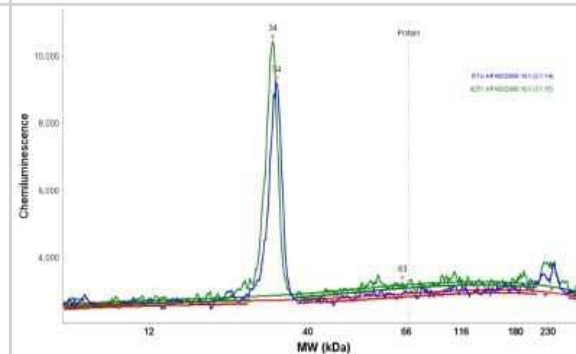
Staining of human liver shows moderate to strong granular cytoplasmic positivity in hepatocytes.



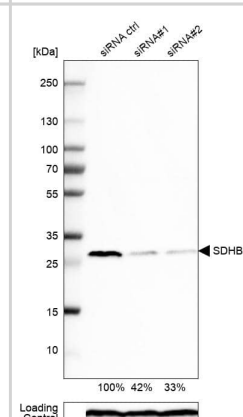
Simple Western: SDHB Antibody [NBP1-87069] - Simple Western lane view shows a specific band for SDHB in 0.2 mg/ml of RT-4 (left) and U-251MG sp (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



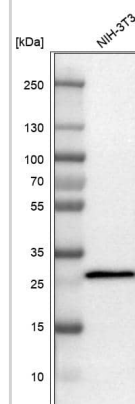
Simple Western: SDHB Antibody [NBP1-87069] - Electropherogram image(s) of corresponding Simple Western lane view. SDHB antibody was used at 1:20 dilution on RT-4 and U-251MG sp lysates(s).



Analysis in RT-4 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-SDHB antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



## Publications

Kang K, Ko J, Lee H et al. Surgically Metabolic Resection of Pericardial Fat to Ameliorate Myocardial Mitochondrial Dysfunction in the Acute Myocardial Infarction Obese Rat Journal of Korean Medical Science 2022-02-08 [PMID: 35257523] (WB, Rat)

Thomas G Papatomas, Lindsey Oudijk, Alexandre Persu et al. SDHB/SDHA immunohistochemistry in pheochromocytomas and paragangliomas: a multicenter interobserver variation analysis using virtual microscopy: a Multinational Study of the European Network for the Study of Adrenal Tumors (ENS@T). Modern Pathology 2015-02-27 [PMID: 25720320] (IF/IHC, Human)

Desmurs M, Foti M, Raemy E et al. C11orf83, a Mitochondrial Cardiolipin-Binding Protein Involved in bc1 Complex Assembly and Supercomplex Stabilization. Mol Cell Biol 2015-04-01 [PMID: 25605331] (WB, Human)

Bayley JP, Oldenburg RA, Nuk J et al. Paraganglioma and pheochromocytoma upon maternal transmission of SDHD mutations. BMC Med Genet 2014-10-10 [PMID: 25300370] (IF/IHC, Human)

Nannini M, Astolfi A, Urbini M et al. Integrated genomic study of quadruple-WT GIST (KIT/PDGFR/SDH/RAS pathway wild-type GIST). BMC Cancer 2014-09-20 [PMID: 25239601] (IF/IHC, Human)

Clarissa A Cassol, Daniel Winer, Wei Liu et al. Tyrosine kinase receptors as molecular targets in pheochromocytomas and paragangliomas. Modern Pathology 2014-01-01 [PMID: 24390213] (IF/IHC, Human)

Jamilloux Y, Favier J, Pertuit M et al. A MEN1 syndrome with a paraganglioma. Eur J Hum Genet 2014-02-01 [PMID: 23778871] (IF/IHC, Human)

Pantaleo MA, Astolfi A, Urbini M et al. Analysis of all subunits, SDHA, SDHB, SDHC, SDHD, of the succinate dehydrogenase complex in KIT/PDGFR wild-type GIST. Eur J Hum Genet 2014-01-01 [PMID: 23612575] (IF/IHC)

Xekouki P, Pacak K, Almeida M et al. Succinate Dehydrogenase (SDH) D Subunit (SDHD) Inactivation in a Growth-Hormone-Producing Pituitary Tumor: A New Association for SDH?. J Clin Endocrinol Metab 2012-03-01 [PMID: 22170724]

Rapizzi E, Ercolino T, Canu L et al. Mitochondrial function and content in pheochromocytoma/paraganglioma of succinate dehydrogenase mutation carriers. Endocr Relat Cancer 2012-05-01 [PMID: 22323561]

Marchiani S, Tamburrino L, Giuliano L et al. Sumo1-ylation of human spermatozoa and its relationship with semen quality. Int J Androl 2011-12-01 [PMID: 21039605]

Gaal J, Stratakis CA, Carney JA et al. SDHB immunohistochemistry: a useful tool in the diagnosis of Carney-Stratakis and Carney triad gastrointestinal stromal tumors. Mod Pathol 2011-01-01 [PMID: 20890271]

More publications at <http://www.novusbio.com/NBP1-87069>



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### **Products Related to NBP1-87069**

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NBP1-87069PEP	SDHB Recombinant Protein Antigen
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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