

# Product Datasheet

## SLC16A3 Antibody - BSA Free

### NBP1-81251

Unit Size: 0.1 ml

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)

**Reviews: 1 Publications: 7**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-81251](http://www.novusbio.com/NBP1-81251)

Updated 4/13/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-81251](http://www.novusbio.com/reviews/destination/NBP1-81251)



**NBP1-81251**

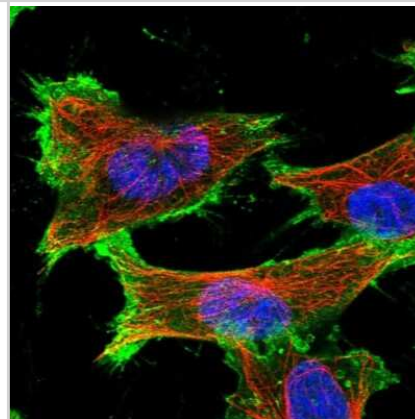
SLC16A3 Antibody - BSA Free

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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	9123
Gene Symbol	SLC16A3
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific publication (PMID: 32400970). Rat (88%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: AEEKLHKPPADSGVDLREVEHFLKAEPEKNGEVVHTPETS
Product Application Details	
Applications	Western Blot, Simple Western, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot Reported in scientific literature (PMID:33212210), Simple Western 1:250, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Immunohistochemistry-Frozen Reactivity reported in (PMID:24692237), Immunoblotting Reactivity reported in (PMID: 28978054)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100. 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 1:250, apparent MW was 53 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

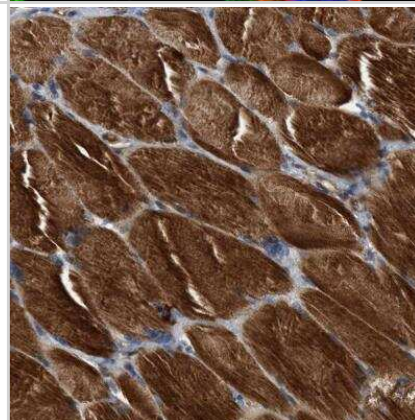


## Images

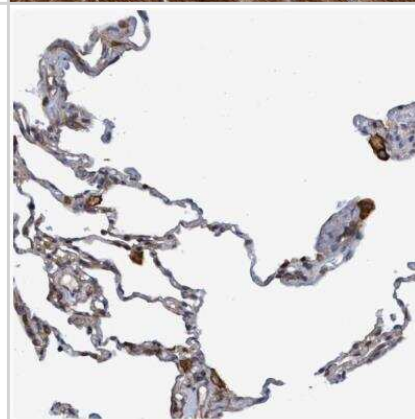
Immunocytochemistry/Immunofluorescence: SLC16A3 Antibody [NBP1-81251] - Staining of human cell line U-251 MG shows localization to plasma membrane. Antibody staining is shown in green.



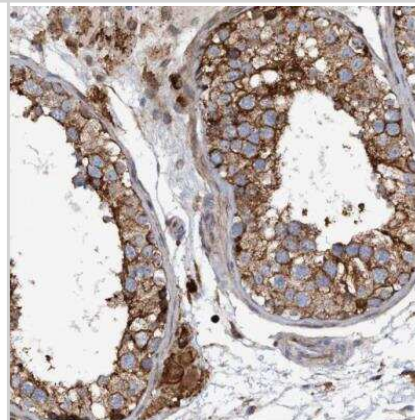
Immunohistochemistry-Paraffin: SLC16A3 Antibody [NBP1-81251] - Staining of human skeletal muscle shows strong cytoplasmic positivity in myocytes.



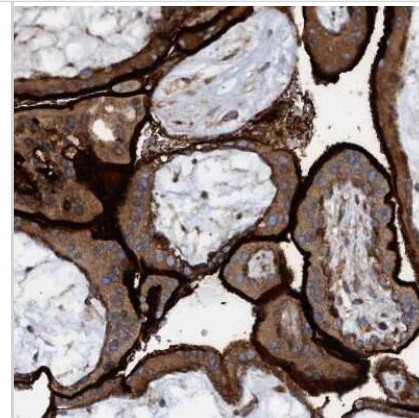
Immunohistochemistry-Paraffin: SLC16A3 Antibody [NBP1-81251] - Staining of human lung shows strong membranous positivity in macrophages.



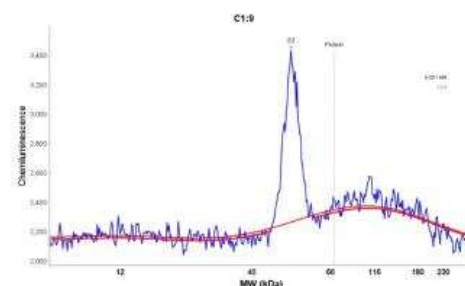
Immunohistochemistry-Paraffin: SLC16A3 Antibody [NBP1-81251] - Staining of human testis shows strong membranous positivity in cells in seminiferous ducts.



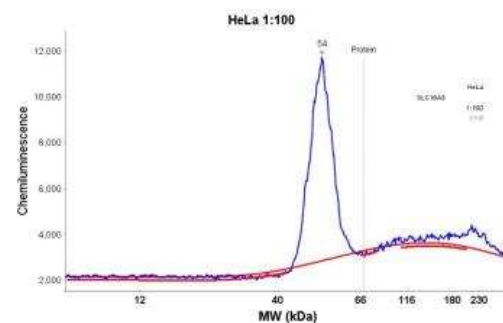
Immunohistochemistry-Paraffin: SLC16A3 Antibody [NBP1-81251] - Staining of human placenta shows strong membranous positivity in trophoblastic cells.



Simple Western: SLC16A3 Antibody [NBP1-81251] - Simple Western: SLC16A3 Antibody [NBP1-81251] - Electropherogram image(s) of corresponding Simple Western lane view. SLC16A3 antibody was used at 1:250 dilution on U-251MG lysates(s)



Simple Western: SLC16A3 Antibody [NBP1-81251] - Simple Western: SLC16A3 Antibody [NBP1-81251] - Electropherogram image(s) of corresponding Simple Western lane view. SLC16A3 antibody was used at 1:250 dilution on HeLa lysates(s).



## Publications

Lundquist AJ, Llewellyn GN, Kishi SH, Jakowec NA et al. Knockdown of Astrocytic Monocarboxylate Transporter 4 in the Motor Cortex Leads to Loss of Dendritic Spines and a Deficit in Motor Learning Mol Neurobiol 2021-11-25 [PMID: 34822124]

Lai YC, Hsieh CY, Lu KY Et al. Monitoring Early Glycolytic Flux Alterations Following Radiotherapy in Cancer and Immune Cells: Hyperpolarized Carbon-13 Magnetic Resonance Imaging Study Metabolites 2021-08-06 [PMID: 34436459] (WB, Human)

Murakami R, Chiba Y, Nishi N et al. Immunoreactivity of receptor and transporters for lactate located in astrocytes and epithelial cells of choroid plexus of human brain Neurosci Lett 2020-11-16 [PMID: 33212210] (IF/IHC, WB, ICC/IF, Human)

### Details:

Immunofluorescence analysis and immunohistochemical analysis of human brain samples. Western blot analysis performed in HeLa and HT-29.

Lahiguera A, HyroSSovA P, Figueras A et al. Tumors defective in homologous recombination rely on oxidative metabolism: relevance to treatments with PARP inhibitors EMBO Mol Med 2020-05-13 [PMID: 32400970] (IHC-P, Mouse)

Ilin Elena I, Armento Angela, Sanchez Leticia Garea et al. Effects of soluble CPE on glioma cell migration are associated with mTOR activation and enhanced glucose flux. Oncotarget 2017-06-27 [PMID: 28978054] (IB, Human)

Silagi ES, Schoepflin ZR, Seifert EL et al. Bicarbonate Recycling by HIF-1-dependent Carbonic Anhydrase isoforms 9 and 12 is Critical in Maintaining Intracellular pH and Viability of Nucleus Pulposus Cells J. Bone Miner. Res. 2017-09-23 [PMID: 28940640] (Human)

Nijland PG, Michailidou I, Witte ME et al. Cellular distribution of glucose and monocarboxylate transporters in human brain white matter and multiple sclerosis lesions. Glia 2014-04-01 [PMID: 24692237] (IHC-Fr, Human)





### **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 NBP1-81251**

---

NBP1-81251PEP	SLC16A3 Recombinant Protein Antigen
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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-81251](http://www.novusbio.com/reviews/submit/NBP1-81251)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

