

Product Datasheet

SLC1A5 Antibody - BSA Free

NBP1-89327

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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NBP1-89327

SLC1A5 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

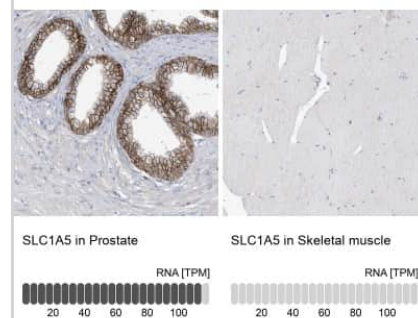
Product Description	
Description	Novus Biologicals Rabbit SLC1A5 Antibody - BSA Free (NBP1-89327) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SLC1A5 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6510
Gene Symbol	SLC1A5
Species	Human, Mouse, Porcine
Reactivity Notes	Use in Porcine reported in scientific literature (PMID:34488623). Mouse reactivity reported in scientific literature (PMID: 31387898).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VDRTESRSTPELIQVKSELPLDPLPVPTEEGNPLLKHYRGPAGDATVASEKES VM

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

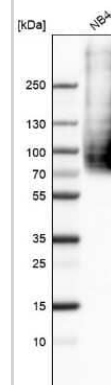


Images

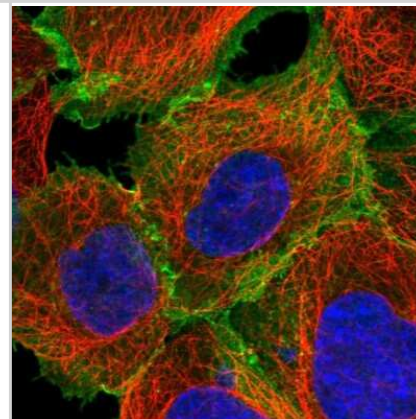
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining in human prostate and skeletal muscle tissues . Corresponding SLC1A5 RNA-seq data are presented for the same tissues.



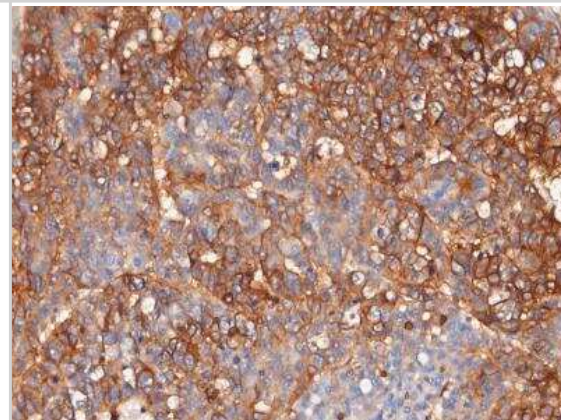
Western Blot: SLC1A5 Antibody [NBP1-89327] - Analysis in human cell line NB4.



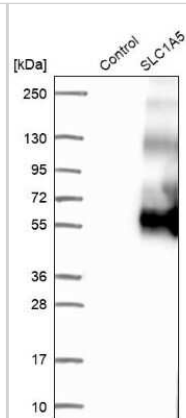
Immunocytochemistry/Immunofluorescence: SLC1A5 Antibody [NBP1-89327] - Staining of human cell line A-431 shows localization to plasma membrane. Antibody staining is shown in green.



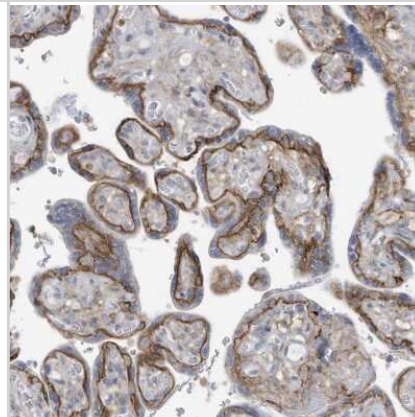
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining in human hepatocellular carcinoma. Image from a verified customer review.



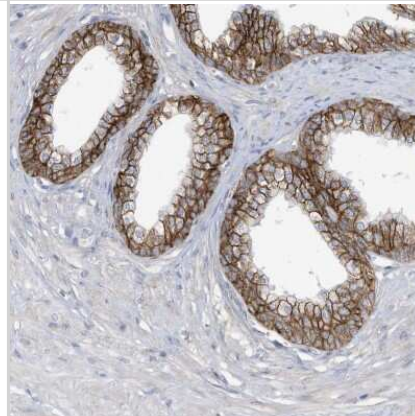
Western Blot: SLC1A5 Antibody [NBP1-89327] - Analysis in control (vector only transfected HEK293T lysate) and SLC1A5 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



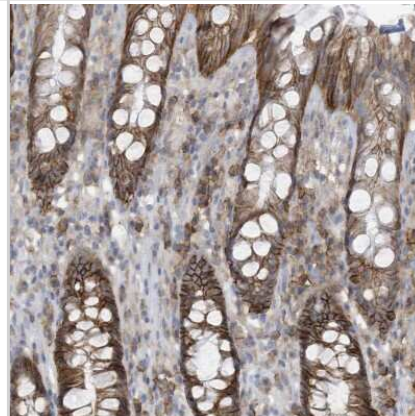
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining of human placenta shows strong membranous positivity in trophoblastic cells.



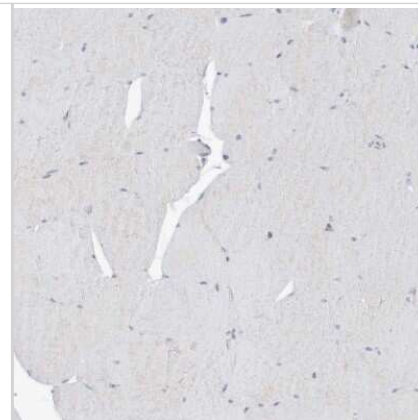
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining of human prostate shows strong membranous positivity in glandular cells.



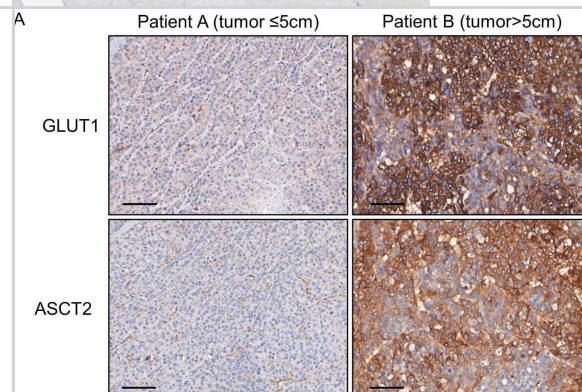
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining of human rectum shows moderate to strong membranous positivity in glandular cells.



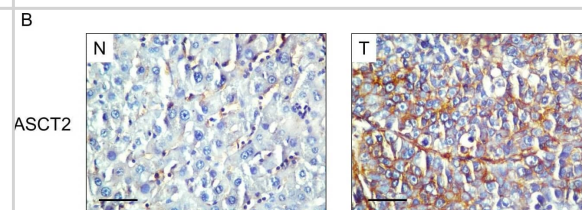
Immunohistochemistry-Paraffin: SLC1A5 Antibody [NBP1-89327] - Staining of human skeletal muscle shows no positivity in striated muscle fibers as expected.



Association between expression levels of GLUT1 and ASCT2 and tumor size. (A) IHC staining for GLUT1 and ASCT2 in patients with tumor diameter less or more than 5 cm. The scale bar indicates 100 μ m. (B-C) The IHC H-scores for GLUT1 (B) and ASCT2 (C) in patients with tumor diameter less or more than 5 cm. The IHC H-scores are expressed as mean \pm standard error of mean (bars); ** represents $p < 0.01$. (D) GLUT1 expression level is positively correlated with ASCT2 expression ($n = 192$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28036362>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Significantly elevated GLUT1 and ASCT2 expression levels in hepatocellular carcinoma (HCC). (A–B) Immunohistochemistry (IHC) assays of GLUT1 (A) and ASCT2 (B) expression in tumor (T) and adjacent non-tumor tissues (N). The scale bar indicates 50 μ m. (C–D) GLUT1 (C) and ASCT2 (D) expression levels in tumor (T) tissue are significantly higher than those in adjacent non-tumor tissue (N) ($n = 15$). The IHC H-scores are shown as a box-plot; ** indicates $p < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28036362>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Emmanuel Benichou, Bolaji Seffou, Selin Topçu, Ophélie Renoult, Véronique Lenoir, Julien Planchais, Caroline Bonner, Catherine Postic, Carina Prip-Buus, Claire Pecqueur, Sandra Guilmeau, Marie-Clotilde Alves-Guerra, Renaud Dentin The transcription factor ChREBP Orchestrates liver carcinogenesis by coordinating the PI3K/AKT signaling and cancer metabolism *Nature Communications* 2024-02-29 [PMID: 38424041]

Liu Y, Liu T, Zhou Y et al. Impeding the combination of astrocytic ASCT2 and NLRP3 by talniflumate alleviates neuroinflammation in experimental models of Parkinson's disease *Acta Pharmaceutica Sinica B* 2022-08-01 [PMID: 36873178] (ICC/IF, PLA, WB)

Romanet S, Aschenbach JR, Pieper R et al. Expression of proposed methionine transporters along the gastrointestinal tract of pigs and their regulation by dietary methionine sources *Genes & nutrition* 2021-09-06 [PMID: 34488623] (WB, Porcine)

Wu WC, Sun HW, Chen J et al. Immunosuppressive immature myeloid cell generation is controlled by glutamine metabolism in human cancer *Cancer Immunol Res* 2019-08-06 [PMID: 31387898] (IHC-P, ICC/IF, Mouse)

Sun HW, Yu XJ, Wu WC et al. GLUT1 and ASCT2 as Predictors for Prognosis of Hepatocellular Carcinoma. *PLoS ONE*. 2016-12-30 [PMID: 28036362] (IF/IHC, Human)



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Products Related to NBP1-89327

NBP1-89327PEP	SLC1A5 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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