

Product Datasheet

Glut3 Antibody - BSA Free

NBP1-89762

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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Publications: 3

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Updated 1/4/2026 v.20.1

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NBP1-89762

Glut3 Antibody - BSA Free

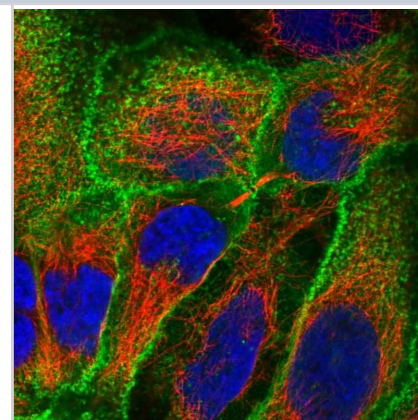
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	54 kDa

Product Description	
Description	Novus Biologicals Rabbit Glut3 Antibody - BSA Free (NBP1-89762) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Glut3 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6515
Gene Symbol	SLC2A3
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KVPETRGRTFEDITRAFEGQAHGADRSGKDGVMEMNSIEPAKETTT

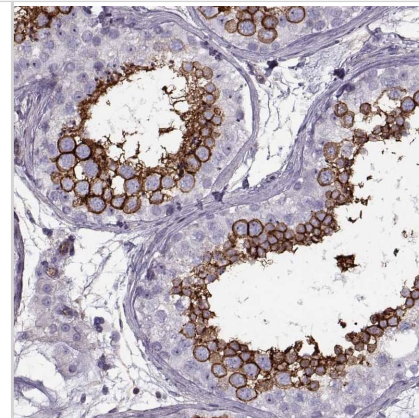
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot Reported in scientific literature (PMID 25948295), Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

Images

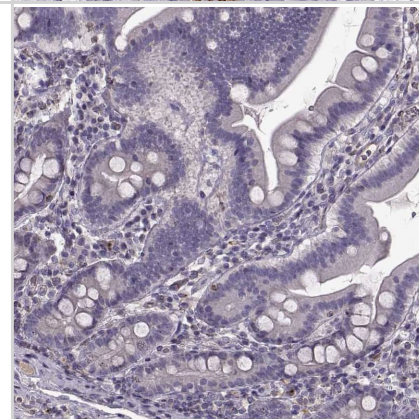
Staining of human cell line CACO-2 shows localization to plasma membrane.



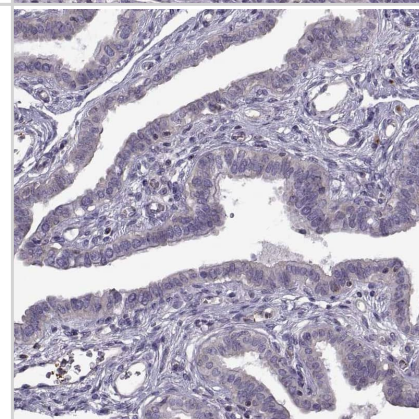
Staining of human testis shows strong membranous positivity in spermatocytes and spermatids.



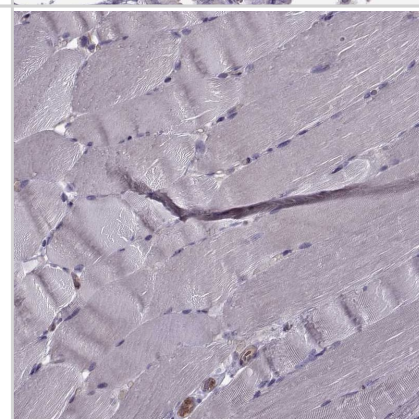
Staining of human small intestine shows no membranous positivity in glandular cells as expected.



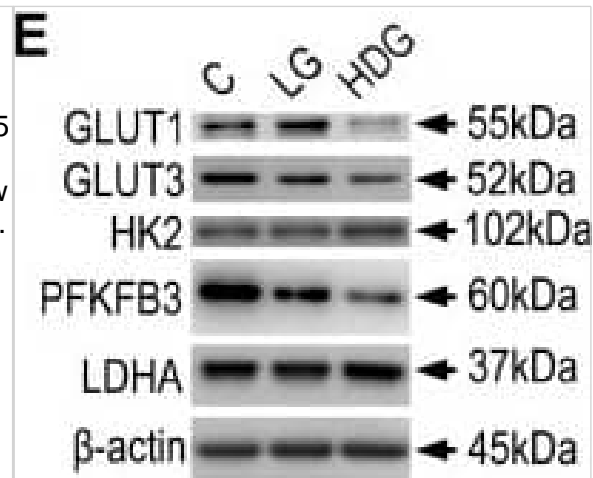
Staining of human fallopian tube shows no membranous positivity in glandular cells as expected.



Staining of human skeletal muscle shows no membranous positivity in myocytes as expected.



High glucose-induced premature senescent HRMECs exhibit diminished glycolysis. (A) Gene Set Enrichment Analysis for Glycolysis gene signature. Transcriptome data from bulk RNA sequencing of three biological replicates of HRMECs cultured with 25 mM D-glucose vs. the 5 mM control at 4 weeks of culture. Gene signature from KEGG Glycolysis was used for the gene set enrichment analysis (GSEA). Heatmaps below depict the leading edges for transcripts responsible for major differences. NES: Normalized Enrichment Score. *p* adj: adjusted *p* value. (B) Energy phenotype plot from Seahorse XFe96 analyzer depicting assessment of glycolysis as extracellular acidification rate (ECAR) and mitochondrial respiration as oxygen consumption rate (OCR) at baseline and stressed phenotypes. (C) Glycolysis stress assay to characterize glycolysis in HRMECs under different culture conditions. Injections in the assay were glucose at 20 min, oligomycin at 40 min, and 2-DG at 60 min. (D) Statistical comparison of basal glycolysis measures using Seahorse Glycolysis stress assay in three biological replicates. (E) Western blot analysis to compare expression of glycolysis-related proteins. β -actin was used as the loading control. **p* < 0.05, ns: not significant. One-way ANOVA, with Tukey's post-hoc analysis was used. C, control in blue; LG in green, 25 mM (+L-glucose); HDG in red, 25 mM (+D-glucose). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36091370>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Bertelli PM, Pedrini E, Hughes D et al. Long term high glucose exposure induces premature senescence in retinal endothelial cells *Frontiers in Physiology* 2022-08-26 [PMID: 36091370] (Immunohistochemistry, Human)

Wang W, Xiao ZD, Li X et al. AMPK modulates Hippo pathway activity to regulate energy homeostasis. *Nat Cell Biol* 2015-04-01 [PMID: 25751139] (IF/IHC, Human)

Theodosakis N, Held MA, Marzuka-Alcala A et al. BRAF inhibition decreases cellular glucose uptake in melanoma in association with reduction in cell volume. *Mol. Cancer Ther.* 2015-05-06 [PMID: 25948295] (WB, Human)



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Products Related to NBP1-89762

NBP1-89762PEP	Glut3 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

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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