

# Product Datasheet

## Glut1 Antibody [PE] NB110-39113PE

Unit Size: 0.1 ml

Store at 4C in the dark.

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

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**NB110-39113PE**

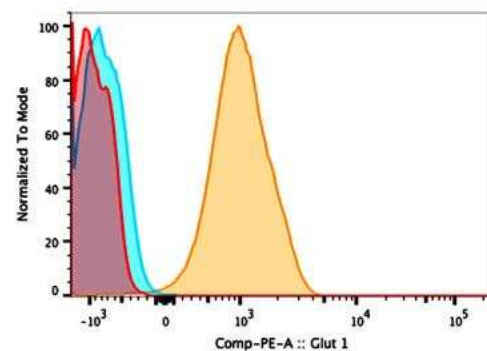
Glut1 Antibody [PE]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Conjugate	PE
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	54.1 kDa
Product Description	
Host	Rabbit
Gene ID	6513
Gene Symbol	SLC2A1
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 29456650). 100% sequence identity with primate, 93% sequence identity with bovine.
Marker	Plasma Membrane Marker
Immunogen	This Glut1 antibody is made against a synthetic peptide made to an N-terminal region of the human GLUT1 protein (between residues 1-100). [Swiss-Prot# P11166]. The immunogen is cytosolic.
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, In vitro assay, Flow (Intracellular), Chromatin Immunoprecipitation (ChIP)
Application Notes	Optimal dilution of this antibody should be experimentally determined.



## Images

Flow Cytometry: Glut1 Antibody [PE] [NB110-39113PE] - Flow cytometric analysis of Glut 1 expression on CD4+ T cells stimulated with anti-CD3/CD28 beads and insulin (1ug/mL) for 5 days in culture media with additional glucose provided. FMO control (red) and isotype control (blue, NBP2-24983) were compared to CD4+ T cells (orange), and this PE conjugated Glut 1 antibody positively stained CD4+ lymphocytes isolated from Mouse (Image submitted by Verified Customer; See Review for Protocol Details)



## Publications

Trompette A, Gollwitzer ES, Pattaroni C et al. Dietary Fiber Confers Protection against Flu by Shaping Ly6c-Patrolling Monocyte Hematopoiesis and CD8+ T Cell Metabolism Immunity 2018-05-15 [PMID: 29768180]

Artico LL, Ruas JS, Teixeira Júnior JR et al. IGFBP7 Fuels the Glycolytic Metabolism in B-Cell Precursor Acute Lymphoblastic Leukemia by Sustaining Activation of the IGF1R-Akt-GLUT1 Axis International journal of molecular sciences 2023-06-02 [PMID: 37298628] (FLOW)

Jaiswal AK, Makhija S, Stahr N Et al. Pyruvate kinase M2 in lung APCs regulates Alternaria-induced airway inflammation Immunobiology 2020-08-05 [PMID: 32747016]

Details:

Citation using the PE version of this antibody.

Jaiswal AK, Yadav J, Makhija S Et al. Short palate, lung, and nasal epithelial clone 1 (SPLUNC1) level determines steroid-resistant airway inflammation in aging Am J Physiol Lung Cell Mol Physiol 2021-12-01 [PMID: 34851736] (FLOW, Mouse)

Details:

Citation using the PE version of this antibody.

Girotra M, Trachsel V, Roch A, Lutolf MP In Vivo Pre-Instructed HSCs Robustly Execute Asymmetric Cell Divisions In Vitro Int J Mol Sci 2020-11-06 [PMID: 33153113] (Mouse)

Details:

Citation using the PE version of this antibody.

Cheung KCP, Fanti S, Mauro C et al. Preservation of microvascular barrier function requires CD31 receptor-induced metabolic reprogramming Nat Commun 2020-07-17 [PMID: 32681081]

Details:

Citation using the PE/Cy7 format of this antibody.

Kishore M, Cheung KCP, Fu H et al. Regulatory T Cell Migration Is Dependent on Glucokinase-Mediated Glycolysis Immunity. 2017-11-21 [PMID: 29669254] (FLOW, Mouse)

Details:

The Phycoerythrin conjugated version of this antibody was used as part of this experiment, NB110-39113PE.

Trachsel V In vitro fate mapping of stem cell development at the single cell level Thesis 2018-01-01 (FLOW, In vitro, Human)

Pacella I, Procaccini C, Focaccetti C et al. Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth Proc Proc Natl Acad Sci U S A. 2018-07-10 [PMID: 29941600] (FLOW, Mouse)

Details:

Citation using the PE form of this antibody.





### **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 NB110-39113PE**

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NBP2-24983	Rabbit IgG Isotype Control [PE]
NB110-39113PEP	Glut1 Antibody Blocking Peptide
210-TA-005	TNF-alpha [Unconjugated]
NBP2-10406	Glut1 Overexpression Lysate

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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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