

Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody

Catalog Number: M00163

About SLC2A1

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody catalog # M00163. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal CGG-19
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P11166

Technical Details

Immunogen	A synthesized peptide derived from human Glucose Transporter GLUT1
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

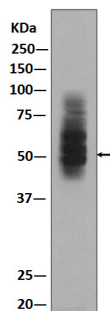
WB 1:500-1:2000

IHC 1:50-1:200

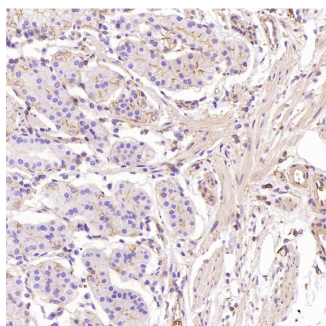
ICC/IF 1:50-1:200

FC 1:50

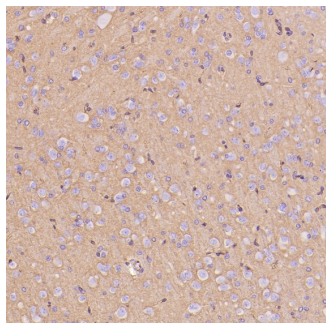
Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody (M00163) Images



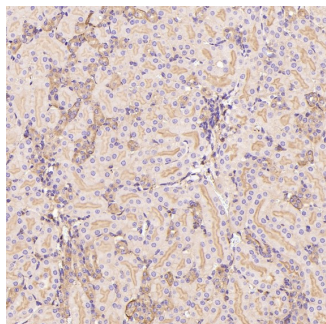
Western blot analysis of GLUT1 expression in HepG2 lysate.



Immunohistochemical analysis of paraffin-embedded Human stomach, using the Antibody at 1:800 dilution.

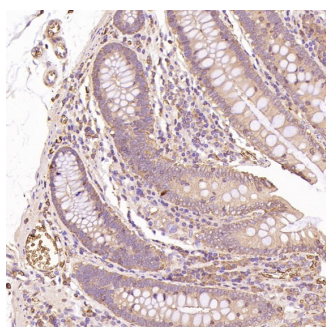
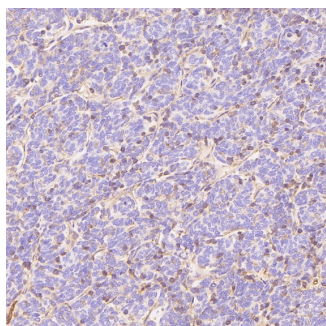


Immunohistochemical analysis of paraffin-embedded Rat hippocampus, using the Antibody at 1:300 dilution.

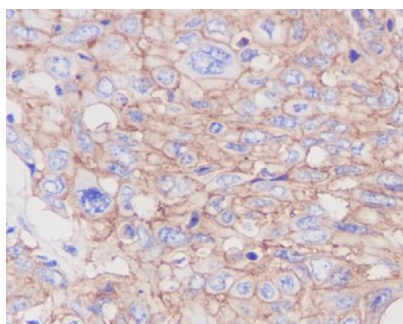


Immunohistochemical analysis of paraffin-embedded Mouse kidney, using the Antibody at 1:300 dilution.

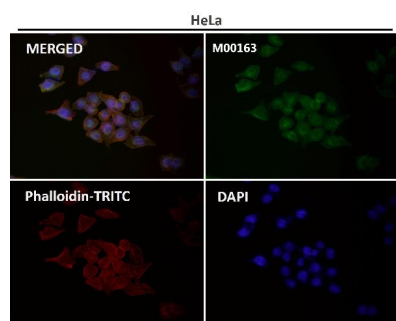
Immunohistochemical analysis of paraffin-embedded Human thymoma, using the Antibody at 1:200 dilution.



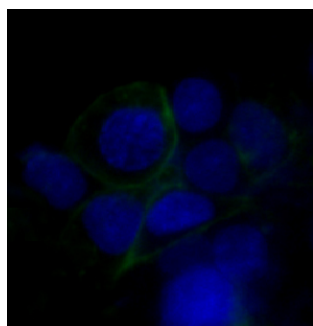
Immunohistochemical analysis of paraffin-embedded Human colon, using the Antibody at 1:200 dilution.



Immunohistochemical analysis of paraffin-embedded human cervix cancer, using GLUT1 Antibody.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis of HepG2 cells, using GLUT1 Antibody .

4 Publications Citing This Product

1. PubMed ID: 32768579, Chen J, Wu D, Dong Z, Chen A, Liu S. The expression and role of glycolysis-associated molecules in infantile hemangioma. Life Sci. 2020 Oct 15; 259:118215. doi:10.1016/j.lfs.2020.118215. Epub 2020 Aug 5. PMID: 32768579.
2. PubMed ID: 26600164, Co-Inhibition of GLUT-1 Expression and the PI3K/Akt Signaling Pathway to Enhance the Radiosensitivity of Laryngeal Carcinoma Xenografts? In Vivo
3. PubMed ID: 25120770, Xu Yy, Wu Tt, Zhou Sh, Bao Yy, Wang Qy, Fan J, Huang Yp. Int J Clin Exp Pathol. 2014 Jun 15; 7(7):3938-47. Ecollection 2014. Apigenin Suppresses Glut-1 And P-Akt Expression To Enhance The Chemosensitivity To Cisplatin Of Laryngeal Carcinoma Hep-2 C...

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