ARG41755
anti-GLUT1 antibody [GLUT1/2475]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [GLUT1/2475] recognizes GLUT1
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	GLUT1/2475
Isotype	IgG2b, kappa
Target Name	GLUT1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 203-305 of Human GLUT1.
Conjugation	Un-conjugated
Alternate Names	DYT17; HepG2 glucose transporter; CSE; GLUT-1; GLUT; GLUT1DS; DYT18; HTLVR; PED; Glucose transporter type 1, erythrocyte/brain; DYT9; EIG12; GLUT1; Solute carrier family 2, facilitated glucose transporter member 1

Application Instructions

Application table

Application	Dilution
FACS	1 - 2 µg/10^6 cells
ICC/IF	2 - 5 µg/ml
IHC-P	2 - 5 µg/ml
WB	1 - 2 µg/ml

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

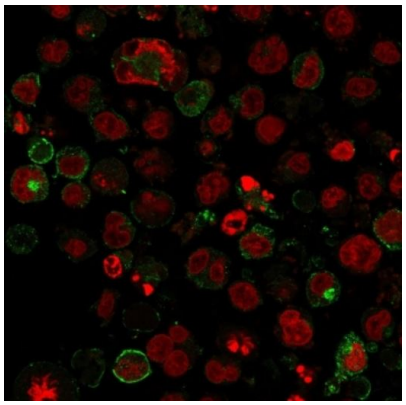
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA

Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

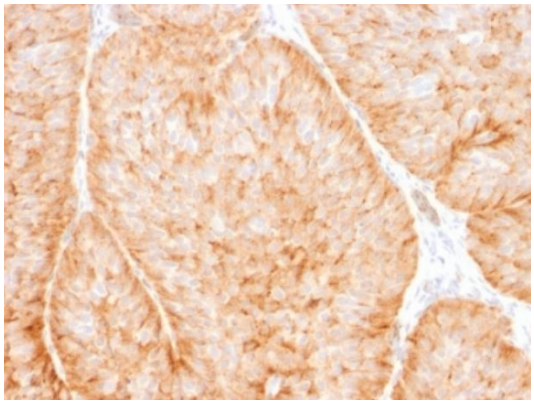
Gene Symbol	SLC2A1
Gene Full Name	solute carrier family 2 (facilitated glucose transporter), member 1
Background	This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Apr 2013]
Function	Facilitative glucose transporter. This isoform may be responsible for constitutive or basal glucose uptake. Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses. [UniProt]
Calculated Mw	54 kDa
Cellular Localization	Cell membrane; Multi-pass membrane protein. Melanosome. Note=Localizes primarily at the cell surface. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. [UniProt]

Images



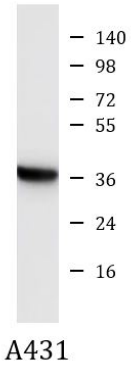
ARG41755 anti-GLUT1 antibody [GLUT1/2475] ICC/IF image

Immunofluorescence: K562 cells stained with ARG41755 anti-GLUT1 antibody [GLUT1/2475] (green). Reddot (red) for nuclear staining.



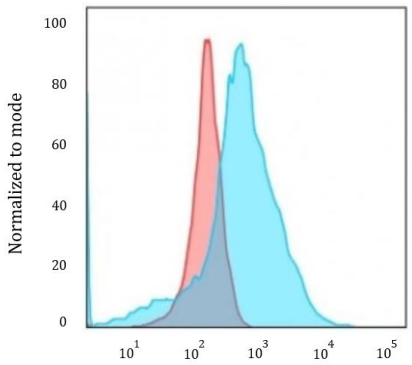
ARG41755 anti-GLUT1 antibody [GLUT1/2475] IHC-P image

Immunohistochemistry: Paraffin-embedded Human bladder carcinoma tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. The tissue section was stained with ARG41755 anti-GLUT1 antibody [GLUT1/2475].



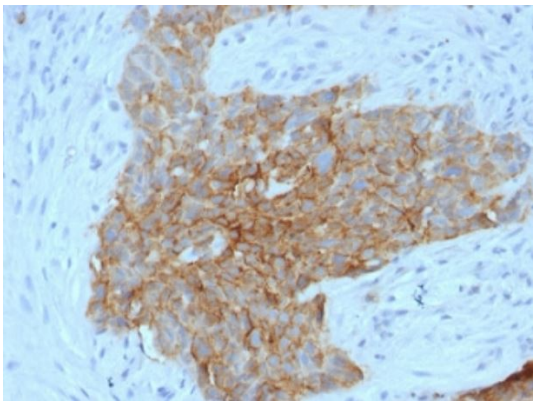
ARG41755 anti-GLUT1 antibody [GLUT1/2475] WB image

Western blot: A431 cell lysate stained with ARG41755 anti-GLUT1 antibody [GLUT1/2475].



ARG41755 anti-GLUT1 antibody [GLUT1/2475] FACS image

Flow Cytometry: K562 cells stained with ARG41755 anti-GLUT1 antibody [GLUT1/2475] (blue) or isotype control antibody (red), followed by incubation with FITC labelled secondary antibody.



ARG41755 anti-GLUT1 antibody [GLUT1/2475] IHC-P image

Immunohistochemistry: Paraffin-embedded human tongue tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. The tissue section was stained with ARG41755 anti-GLUT1 antibody [GLUT1/2475].