Datasheet for ABIN7582075

anti-GLUT1 antibody (Extracellular) (APC)

Go to Product page

Overview

Quantity:	50 µL
Target:	GLUT1 (SLC2A1)
Binding Specificity:	AA 41-55, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUT1 antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Live Cell Imaging (LCI)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to GLUT1 (extracellular) conjugated to the fluorescent dye Allophycocyanin (APC)
Immunogen:	(C)EEFYNQTWNHRYGES, corresponding to amino acid residues 41-55 of rat Glucose transporter 1
Sequence:	(C)EEFYNQTWNH RYGES
Isotype:	IgG
Specificity:	1st extracellular loop
Predicted Reactivity:	Not recommended for mouse,rat samples
Characteristics:	Anti-GLUT1 (extracellular) Antibody (ABIN7043692, ABIN7044497 and ABIN7044498) is a highly specific antibody directed against an extracellular epitope of the rat protein. The antibody

Product Details

	can be used in western blot and indirect live cell flow cytometry. It has been designed to recognize GLUT1 from mouse, rat and human samples. Anti-GLUT1 (extracellular)-APC Antibody (ABIN7043692, ABIN7044497 and ABIN7044498-APC) is directly conjugated to Allophycocyanin (APC) fluorophore. This conjugated antibody has been developed to be used in immunofluorescent applications such as direct flow cytometry and live cell imaging.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	GLUT1 (SLC2A1)
Alternative Name:	SLC2A1 (SLC2A1 Products)
Background:	Glucose transporter 1, Facilitated glucose transporter member 1, SLC2A1, DYT9,Glucose transporter 1 (GLUT1) belongs to the major facilitator superfamily (MFS). It is encoded by SLC2A1, and mediates basal-level cellular uptake of glucose into many tissues. GLUT1 contains 12 membrane-spanning domains with both the amino and carboxyl termini oriented intracellularly. In addition, a single extracellular N-linked glycosylation site is present1.GLUT1 is widely expressed, but it is most abundant in fibroblasts, erythrocytes, and endothelial cells with low levels of expression in muscle, liver, and adipose tissue2.Inactivating mutations of GLUT1, resulting in compromised transport activities for glucose, are associated with diseases as a result of lack of energy supply to the brain3. GLUT1 deficiency syndrome (also known as De Vivo syndrome) is characterized by a spectrum of symptoms including early-onset seizures, microcephaly and retarded development4. In addition, elevated expression levels of GLUT1 have been observed in several cancer types, identifying GLUT1 as an important prognostic indicator for tumorigenesis5.
Gene ID:	24778
UniProt:	P11167
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport, Warburg Effect

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582043)

Application Details

	Blocking Peptide: (ABIN7236994)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Copyright antibodies-online. All rights reserved.