GLUT1
Polyclonal ANTIBODY
Catalog Number: 21829-1-AP

Basic Information
Catalog Number: 21829-1-AP
Size: 34 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG16282
GenBank Accession Number: BC121804
GeneID (NCBI): 6513
Recommended Dilutions:
WB: 1:500-1:1000
IF: 1:20-1:200

Applications
Tested Applications: FC, IF, WB, ELISA
Cited Applications: IF, IHC, WB
Species Specificity:
human, mouse, rat
Cited Species: human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
SLC2A1, also known as GLUT1, is an ubiquitously expressed glucose transporter and responsible for the basal level of glucose uptake in most cell types. Human erythrocytes express the highest level of the SLC2A1. Defects in SLC2A1 are the cause of GLUT1 deficiency syndrome type 1 and type 2. High expression of SLC2A1 has been reported to be a reliable immunohistochemical marker for juvenile hemangiomas. GLUT1 protein may appear as two or more distinct forms among 43 kDa to 55 kDa due to the different glycosylation state. The conversion of highly glycosylated form of GLUT1 to less glycosylated form has been reported to correlate to differentiation (8263524, 23302780). 21829-1-AP antibody can also detect the 25 kDa degradation protein in SDS-PAGE (PMID: 18387950).

Notable Publications
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<td>28990097</td>
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<td>Fangchao Yin</td>
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Storage
Storage:
Store at -20ºC. Stable for one year after shipment.
Storage Buffer:
PBS with 0.05% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20ºC storage
Y79 cells were subjected to SDS-PAGE followed by western blot with 21829-1-AP (GLUT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. 1X10^6 HeLa cells were stained with 0.2 μg SLC2A1, GLUT1 antibody (21829-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

Immunofluorescent analysis of HeLa cells using 21829-1-AP (GLUT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).