GLUT1
Monoclonal ANTIBODY
Catalog Number: 66290-1-Ig

Basic Information
Catalog Number: 66290-1-Ig
Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG1
Purification Method: Protein G purification
Immunogen Catalog Number: AG17108
GenBank Accession Number: BC121604
GeneID (NCBI): 6613
Full Name: solute carrier family 2 (facilitated glucose transporter), member 1
Calculated MW: 492aa, 54 kDa
Observed MW: 45-55 kDa

Recommended Dilutions:
WB: 1:500-1:3000
IHC: 1:20-1:800

Applications
Tested Applications:
FC, IHC, WB, ELISA
Cited Applications:
WB
Species Specificity:
Human, Mouse
Cited Species:
Human

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

Recommended Controls:
WB: HEK-293 cells; NIH/3T3 cells
IHC: Human lung cancer tissue

Background Information
GLUT1, also known as SLC2A1, 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 GLUT1. Defects in SLC2A1 are the cause of GLUT1 deficiency syndrome type 1 and type 2. High expression of GLUT1 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). 66290-1-Ig antibody can also detect the 130 kDa dimer protein in SDS-PAGE (11681785).

Notable Publications
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<td>Jinfeng Xang</td>
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Storage
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.05% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product, please contact:
T: (888) 4PTGLAB (1-888-478-4522) (toll free in USA) or 1 (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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HEK-293 cells were subjected to SDS PAGE followed by western blot with 66290-1-Ig (SLC2A1, GLUT1 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66290-1-Ig (GLUT1 antibody) at dilution of 1:300 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66290-1-Ig (GLUT1 antibody) at dilution of 1:300 (under 40x lens).

105K6 Jurkat cells were stained with 0.2ug SLC2A1, GLUT1 antibody (66290-1-Ig, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488 conjugated AffiniPure Goat Anti-Mouse IgG/H+L with dilution 1:1500.