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10-7548: Monoclonal Antibody to Glut-1 (Clone: ABM4G40)

Clonality :	Monoclonal
Clone Name :	ABM4G40
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	SLC2A1
Gene ID :	6513
Uniprot ID :	P11166
Format :	Purified
Alternative Name :	SLC2A1,GLUT1
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant Glut-1 protein (amino acid 200-492) was used as the immunogen for this antibody.

Description

Glucose transporter 1 (Glut-1) also known as solute carrier family 2, facilitated glucose transporter member 1 (SLC2A1), is a uniporter protein. GLUT1 expression is correlated with FDG uptake by Extrahepatic bile duct (EHD) cancers. GLUT-1-deficiency syndrome is a treatable metabolic disorder caused by a mutation of mutation of SLC2A1 gene. The functional deficiency of the GLUT1 protein leads to an impaired glucose transport into the brain, resulting in neurologic disorders gene.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml, Immunohistochemical analysis: 5 µg/ml, Flow Cytometric analysis: 0.5 µg/10^6 Vells

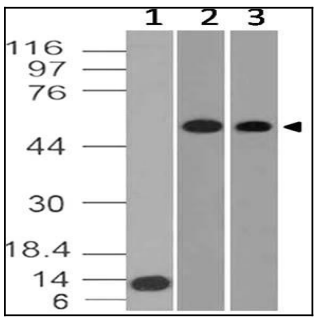

Figure-1: Western blot analysis of Glut-1. Anti- Glut-1 antibody (Clone: ABM4G40) was tested at 0.5 µg/ml and 2 µg/ml on (1) recombinant protein (2) human liver and (3) human ovary lysates respectively.

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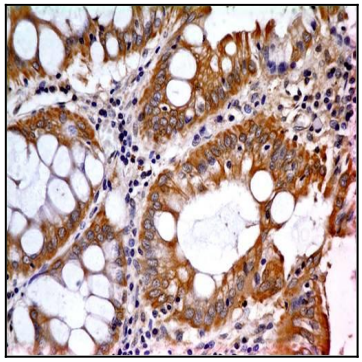

Figure-2 : Immunohistochemical analysis of Glut-1 in human renal cell carcinoma using Glut-1 antibody (Clone: ABM4G40) at 5 µg/ml.

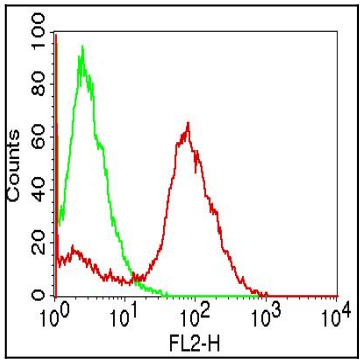

Figure-3:Cell surface flow analysis of Glut-1 in Panc-1 cell line using 0.5 µg/10^6 cells of Glut-1 antibody (Clone: ABM4G40). Green represents isotype control; red represents anti-Glut-1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.