

## 10-7588: Monoclonal antibody to Glut-1 (Clone: ABM51E4)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM51E4
<b>Application :</b>	FACS, WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	SLC2A1
<b>Gene ID :</b>	6513
<b>Uniprot ID :</b>	P11166
<b>Format :</b>	Purified
<b>Alternative Name :</b>	SLC2A1, GLUT1
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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: 4-6 µg/ml, FACS analysis: 2 -4 µg/10<sup>6</sup>

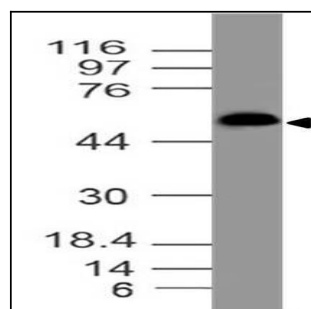


Fig:1- Expression analysis of GLUT1. Anti- GLUT1 antibody (Clone: ABM51E4) was tested at 4 µg/ml on hTestis lysate.

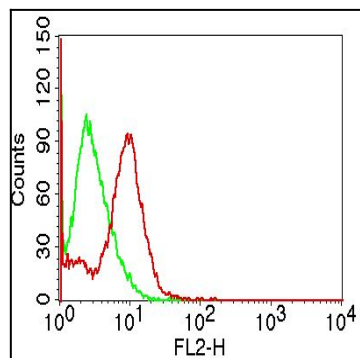


Figure-2: Cell surface flow analysis of Glut-1 in Panc-1 cell line using 2  $\mu\text{g}/10^6$  cells of Glut-1 antibody (Clone: ABM51E4). Green represents isotype control; red represents anti-Glut-1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.