

## 10-7655: Anti Glut-4 Monoclonal Antibody (Clone: ABM5D66)

|                           |   |
|---------------------------|---|
| <b>Clonality :</b>        | Monoclonal  |
| <b>Clone Name :</b>       | ABM5D66   |
| <b>Application :</b>      | WB  |
| <b>Reactivity :</b>       | Human   |
| <b>Gene :</b>             | SLC2A4  |
| <b>Gene ID :</b>          | 6517  |
| <b>Uniprot ID :</b>       | P14672  |
| <b>Format :</b>           | Purified  |
| <b>Alternative Name :</b> | Glucose transporter type 4, insulin-responsive, SLC2A4, |
| <b>Isotype :</b>          | Mouse IgG1, Kappa                                       |

### Description

The Glucose Transporter Glut-4 protein, also known SLC2A4 in human encodes a member of the solute carrier family 2, with a mass of 54,787 daltons, and has two identified isoforms. It is reported to contain sites of glycosylation. The Glut-4 protein serves as a facilitative glucose transporter, which is regulated by insulin. When there is no insulin present, this membrane protein remains within the cells of adipose tissue and muscle. However, within minutes of insulin stimulation, the protein is transported to the cell surface and begins to transport glucose across the cell membrane. Mutations in this gene have been associated with non-insulin dependent diabetes mellitus and obesity. The Anti Glut-4 Monoclonal Antibody is a mouse monoclonal IgG1  $\kappa$  Glucose Transporter that is recommended for detecting Glut4 of mouse, rat, and human origin through WB, IP, IF, and IHC(P).

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 25 $\mu$ g / 100 $\mu$ g   |
| <b>Purification :</b>      | Protein G Chromatography   |
| <b>Content :</b>           | 25 $\mu$ g in 50 $\mu$ l/100 $\mu$ g in 200 $\mu$ l 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

Recommended dilutions: WB:2-4  $\mu$ g/ml. However, this need to be optimized based on the research applications.

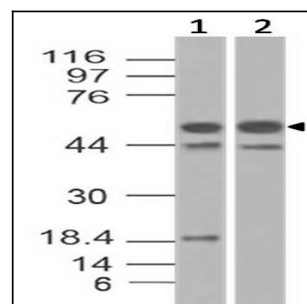


Figure:1- Expression analysis of Glut-4. Anti-Glut-4 antibody (Clone: ABM5D66) was tested at 2  $\mu$ g/ml on (1) 293 and (2) HT-29 lysates.