

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Glut3. Recognizes human Glut3 expression on human Glut3-transfected NS0 cells, but not the NS0 control transfectants. No cross-reactivity was observed with transfectants expressing human Glut1 or human Glut2.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 202017
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human Glut3 Accession # P11169
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	Human Glut3 transfected NS0 cells
<b>Immunocytochemistry</b>	8-25 µg/mL	Immersion fixed Caco-2 human colorectal adenocarcinoma cell line

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Glut3 belongs to the facilitative glucose transporter protein family that comprises 13 members, and is designated SLC2A3 (solute carrier family 2, member 3). It is an integral membrane protein with 12 transmembrane domains. Glut3 is the glucose transporter responsible for maintaining an adequate glucose supply to neurons (1, 2). It is also expressed in placenta and articular chondrocytes (3, 4).

### References:

1. Vannuci, S.J. *et al.* (1997) *Glia* **21**:2.
2. Mueckler, M. *et al.* (1997) *Biochem. Soc. Trans.* **25**:951.
3. Illsley, N.P. (2000) *Placenta* **21**:14.
4. Mobasher, A. (2002) *Cell Biol. Int.* **26**:297.