

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG _{2B} Clone # 202017
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Glut3 Accession # P11169
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	NS0 mouse myeloma cell line transfected with human Glut3

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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:

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

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