

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glut5. Stains human Glut5 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2A} Clone # 195205
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Glut5 Met1-Gln501 Accession # P22732
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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 Glut5

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

Glut5 belongs to the facilitative glucose transporter protein family that comprises 13 members. It is an integral membrane protein with 12 transmembrane domains and is expressed at variable levels in many tissues. Glut5 is expressed at highest levels in small intestine and at lower levels in kidney, testis, skeletal muscle, and adipose tissue (1, 2). Glut5 transports fructose in intestine, testis, and other tissues.

References:

- Kayano, T. *et al.* (1990) *J. Biol. Chem.* **265**:13276.
- Corpe, C.P. (2002) *Biochem. Biophys. Acta.* **1576**:191.
- Sasaki, A. *et al.* (2003) *Neurosci. Lett.* **338**:17.

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