Human Glut4 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 925932

Catalog Number: FAB86541R

25 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glut4 in direct ELISAs. Stains human Glut4 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG_{2B} Clone # 925932
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Glut4 Met1-Asp509 Accession # P14672
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 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.

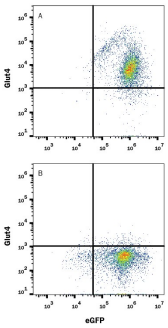
APPLICATIONS

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	5 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of Glut4 in HEK293 Human Cell Line Transfected with Human Glut4 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human Glut4 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human Glut4 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB86541R). Quadrant markers were set based on control antibody staining (Catalog # IC0041R). View our protocol for Staining Membrane-associated Proteins.

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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Glut4 (Glucose Transporter Member 4), also known as SLC2A4, is a 509 aa multi-pass type membrane protein and shares 65% aa identity with mouse Glut4. It is an insulin-regulated glucose transporter. Glut4 is most highly expressed in adipose and striated muscle tissues, but has also been reported in multiple other tissues including the nervous system and breast cancer. Insulin stimulated transport of Glut4 has been shown to be impaired in type 2 diabetes patients. Additionally, inhibition of Glut4 may be useful in reducing proliferation of breast cancer cells.

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