

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Glut4 in direct ELISAs.
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 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	HEK293 human embryonic kidney cell line transfected with human Glut4 and eGFP

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

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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