

DESCRIPTION

Species Reactivity	Rat
Specificity	Recognizes an epitope in the cytoplasmic portion of rat Glut4 and has been shown to bind only to the muscle-adipose isoform of the glucose transporter, which is antigenically unique from the other transport proteins (1-3). Recognizes Glut4 in human, monkey
Source	Monoclonal Mouse IgG ₁ Clone # 1F8
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Partially purified vesicles containing Glut4
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoaffinity Purification	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

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 belongs to the facilitative glucose transporter protein family that comprises 13 members. It is an integral membrane protein with 12 transmembrane domains. Glut4 is expressed in the insulin-responsive tissues, muscle and adipose tissue. Insulin stimulation leads to translocation of Glut4 from intracellular stores to the cell surface resulting in the enhancement of glucose uptake.

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