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Anti-Glucose Transporter GLUT4/SLC2A4 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PA1722-Fluoro488

About SLC2A4

Facilitated glucose transport by mammalian cells is not a property of a single protein but an activity associated with a family of structurally related proteins. Glucose transporter 4 is a insulin-responsive glucose transporter. It belongs to solute carrier family 2, member 1. Insulin alters the subcellular localization of GLUT4 vesicles in human muscle, and that this effect is impaired equally in insulin-resistant subjects with and without diabetes. A similar pattern of defects cause insulin resistance in human adipocytes.Human insulin resistance involves a defect in GLUT4 traffic and targeting leading to accumulation in a dense membrane compartment from which insulin is unable to recruit GLUT4 to the cell surface.

Overview

Product Name	Anti-Glucose Transporter GLUT4/SLC2A4 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P14672

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GLUT4, identical to the related rat and mouse sequences.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm

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Suggested Dilutions	Optimal dilutions should be determined by end users.

5 Publications Citing This Product

1. PubMed ID: 30733181, Mo Z,Li L,Yu H,Wu Y,Li H.Coumarins ameliorate diabetogenic action of dexamethasone via Akt activation and AMPK signaling in skeletal muscle.J Pharmacol Sci.2019 Mar;139(3):151-157.doi:10.1016/j.jphs.2019.01.001.Epub 2019 Jan 23.PMID:30733181.

2. PubMed ID: 27738449, Acupuncture Alters Expression of Insulin Signaling Related Molecules and Improves Insulin Resistance in OLETF Rats

3. PubMed ID: 30733181, Coumarins ameliorate diabetogenic action of dexamethasone via Akt activation and AMPK signaling in skeletal muscle Zejun Mo, et al. J Pharmacol Sci. 2019 Mar;139(3):151-157. doi: 10.1016/j.jphs.2019.01.001. Epub 2019 Jan 23.

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