

Anti-Glucose Transporter GLUT4/SLC2A4 Antibody Picoband® Cy3 Conjugated

Catalog Number: PA1722-Cy3

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® Cy3 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Flow Cytometry |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| 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 | Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm |

Suggested Dilutions

Flow Cytometry, 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.

Visit bosterbio.com/anti-glut4-antibody-pa1722-boster.html to see all 5 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Glucose Transporter GLUT4/SLC2A4 Antibody - Cy3

For Research Use Only. Not for use in diagnostic procedures.