

Datasheet for ABIN1734760
anti-GLUT4 antibody (AA 480-509)



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Overview

Quantity:	100 µL
Target:	GLUT4 (SLC2A4)
Binding Specificity:	AA 480-509
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUT4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthetic peptide made to an internal portion of the human GLUT4 protein (between residues 480-509)
Isotype:	IgG
Specificity:	Reacts with human and mouse GLUT4 protein
Cross-Reactivity:	Rat (Rattus)
Cross-Reactivity (Details):	May cross react with rat (100 % sequence homology).
Purification:	Antigen affinity purified

Target Details

Target:	GLUT4 (SLC2A4)
Alternative Name:	Glucose Transporter GLUT4 (SLC2A4 Products)
Background:	Glucose Transporter 4 (GLUT4/SLC2A4) is a member of a family of proteins that facilitate glucose transport. In response to insulin GLUT4 translocates from low density microsomes to the plasma membrane. Activation of phosphatidylinositol-3-OH kinase is required for this trafficking event but is not sufficient. Insulin resistant subjects with and without diabetes show abnormal accumulation of GLUT4 in a dense membrane compartment in muscle and adipocytes from which insulin is unable to recruit GLUT4 to the cell surface.
UniProt:	P14672
Pathways:	AMPK Signaling , Carbohydrate Homeostasis , Proton Transport , Brown Fat Cell Differentiation , Warburg Effect

Application Details

Application Notes:	Working dilution: Optimal dilution should be determined by the end user. The following are guidelines only : - ICC : 1/100 - IF : 1/100 - IHC : 1/200 - WB : 0.5 µg/mL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS, glycerol 30 % , Sodium azide 0.05 %
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C/-80 °C
Storage Comment:	Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.