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Anti-GLUT12 Antibody
Catalog # ABO11479

Specification

Anti-GLUT12 Antibody - Product Information

Application	**WB**
Primary Accession	Q8TD20
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 12(SLC2A12) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GLUT12 Antibody - Additional Information

Gene ID 154091

Other Names
Solute carrier family 2, facilitated glucose transporter member 12, Glucose transporter type 12, GLUT-12, SLC2A12, GLUT12, GLUT8

Calculated MW
66966 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Endomembrane system ; Multi- pass membrane protein . Cytoplasm, perinuclear region . Localizes primarily perinuclear region in the absence of insulin.

Tissue Specificity
Predominantly expressed in skeletal muscle, heart and prostate, with lower levels in brain, placenta and kidney. .

Protein Name
Solute carrier family 2, facilitated glucose transporter member 12

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human GLUT12(256-272aa SLKDEYQYSFWDLFRSK), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.

Anti-GLUT12 Antibody - Protein Information

Name SLC2A12 (HGNC:18067)

Function
Insulin-independent facilitative glucose transporter.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q8BFW9}; Multi-pass membrane protein. Endomembrane system {ECO:0000250|UniProtKB:Q5J316}; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Localizes primarily perinuclear region in the absence of insulin.

Tissue Location
Predominantly expressed in skeletal muscle, heart and prostate, with lower levels in brain, placenta and kidney

Anti-GLUT12 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GLUT12 Antibody - Images

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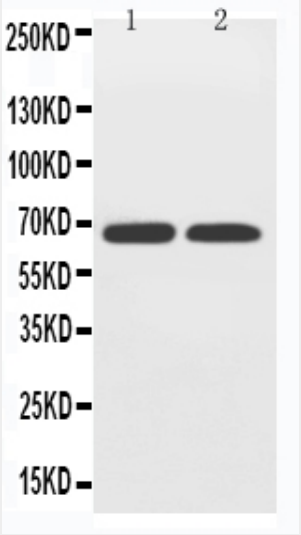

Anti-GLUT12 antibody, ABO11479, Western blottingLane 1: PC-12 Cell LysateLane 2: A549 Cell Lysate

Anti-GLUT12 Antibody - Background

Solute carrier family 2, facilitated glucose transporter member 12, also known as SLC2A12, is a protein that in humans is encoded by the SLC2A12 gene. SLC2A12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. This family of transporters shows conservation of 12 transmembrane helices as well as functionally significant amino acid residues. By genomic sequence analysis, this gene is mapped to chromosome 6q23.2. SLC2A12 was detected in a perinuclear location in MCF7 cells in the absence of insulin; however, SLC2A12 redistributed to the plasma membrane of MCF7 cells grown continuously in the presence of insulin. This gene acts as facilitative glucose transporter.