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Phospho-GLUT4 (S488) Antibody

Rabbit mAb
Catalog # AP93244

Product Information

Application	WB
Primary Accession	P14672
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	insulin-responsive; Glucose transporter GLUT 4; Glucose transporter type 4; Glucose transporter type 4 insulin responsive; GLUT4; Insulin responsive glucose transporter type 4; SLC2A4 ; Solute carrier family 2 member 4;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	54787

Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-GLUT4 (S488)
Description	Insulin-regulated facilitative glucose transporter.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	SLC2A4 (HGNC:11009)
Function	Insulin-regulated facilitative glucose transporter, which plays a key role in removal of glucose from circulation. Response to insulin is regulated by its intracellular localization: in the absence of insulin, it is efficiently retained intracellularly within storage compartments in muscle and fat cells. Upon insulin stimulation, translocates from these compartments to the cell surface where it transports glucose from the extracellular milieu into the cell.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P14142}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P14142} Endomembrane system; Multi-pass membrane protein. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P14142}. Note=Localizes primarily to the perinuclear region, undergoing continued recycling to the plasma membrane where it is rapidly reinternalized (PubMed:8300557). The dileucine internalization motif is critical for intracellular sequestration (PubMed:8300557). Insulin stimulation induces translocation to the cell membrane (By similarity) {ECO:0000250|UniProtKB:P14142,

ECO:0000269|PubMed:8300557}

Tissue Location Skeletal and cardiac muscles; brown and white fat.

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