

SLC2A4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20794c

Product Information

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|--------------------------|------------------------|
| Application | WB, E |
| Primary Accession | P14672 |
| Reactivity | Human, Rat, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB43834 |
| Calculated MW | 54787 |

Additional Information

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|---------------------------|--|
| Gene ID | 6517 |
| Other Names | Solute carrier family 2, facilitated glucose transporter member 4, Glucose transporter type 4, insulin-responsive, GLUT-4, SLC2A4, GLUT4 |
| Target/Specificity | This SLC2A4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 495-529 amino acids from the C-terminal region of human SLC2A4. |
| Dilution | WB~~1:1000 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | SLC2A4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| 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.

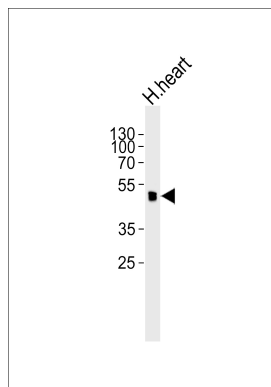
Background

Insulin-regulated facilitative glucose transporter.

References

Fukumoto H.,et al.J. Biol. Chem. 264:7776-7779(1989).
Buse J.B.,et al.Diabetes 41:1436-1445(1992).
Chiaramonte R.,et al.Gene 130:307-308(1993).
Verhey K.J.,et al.J. Biol. Chem. 269:2353-2356(1994).
Laloti V.S.,et al.J. Biol. Chem. 277:19783-19791(2002).

Images



Western blot analysis of lysate from human heart tissue lysate, using SLC2A4 Antibody (C-term)(Cat. #AP20794c). AP20794c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.