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# Recombinant Anti-GLUT1 Rabbit mAb

Catalog # AP94847

## Product Information

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| **Application** | WB, IHC |
| **Primary Accession** | P11166 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Monoclonal |
| **Calculated MW** | 54084 |

## Additional Information

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| **Gene ID** | 6513 |
| **Other Names** | GLUT1; Solute carrier family 2, facilitated glucose transporter member 1; Glucose transporter type 1, erythrocyte/brain; GLUT-1; HepG2 glucose transporter |
| **Dilution** | WB~~1:1000 IHC~~1:100~500 |
| **Format** | The antibody was purified by immunogen affinity chromatography. iquid in PBS, pH 7.3, 50% glycerol, and 0.05% Proclin300. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | SLC2A1 ( HGNC:11005) |
| **Function** | Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:10227690, PubMed:10954735, PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:32860739). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:18245775, PubMed:19449892). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (PubMed:10227690). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for mesendoderm differentiation (By similarity). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor inner segment {ECO:0000250\|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:24847886, PubMed:25982116). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065) |

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| **Tissue Location** | Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues |

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