Datasheet for ABIN6938398

# Recombinant anti-GLUT1 antibody (AA 203-305)

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## Overview

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| Quantity: | 100 µg |
| Target: | GLUT1 (SLC2A1) |
| Binding Specificity: | AA 203-305 |
| Reactivity: | Human |
| Host: | Rabbit |
| Antibody Type: | Recombinant Antibody |
| Clonality: | Monoclonal |
| Conjugate: | This GLUT1 antibody is un-conjugated |
| Application: | ELISA, Flow Cytometry (FACS), Coating (Coat), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

## Product Details

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| Immunogen: | Recombinant fragment of human GLUT1 protein (around aa 203-305) (exact sequence is proprietary) |
| Clone: | GLUT1-3132R |
| Isotype: | IgG |
| Specificity: | Recognizes a protein of 55 kDa, which is identified as GLUT-1. Glucose transporters are integral membrane glycoproteins involved in transporting glucose into most cells. There are many types of glucose transport carrier proteins, designated as Glut-1 to Glut-12. Glut-1 is a major glucose transporter in the mammalian blood-brain barrier. It is expressed in high density on the membranes of human erythrocytes and the brain capillaries that comprise the blood-brain |

## Product Details

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| | barrier. Glut-1 is expressed at variable levels in many human tissues. Overexpression of Glut-1 has been linked to tumor progression or poor survival of patients with carcinomas of the colon, breast, cervical, lung, bladder and mesothelioma. Glut-1 is a sensitive and specific marker for the differentiation of malignant mesothelioma (positive) from reactive mesothelium (negative). |
| Cross-Reactivity (Details): | Human. |
| Purification: | 1.0mg/ml of Ab purified from Bioreactor by Protein A/G. |

## Target Details

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| Target: | GLUT1 (SLC2A1) |
| Alternative Name: | SLC2A1 (SLC2A1 Products) |
| Background: | Erythrocyte/hepatoma glucose transporter, Glucose transporter type-1, GLUT1, GLUT1DS, GLUTB, GT1, GTG1, Gtg3, HepG2 glucose transporter, PED, RATGTG1, Solute carrier family 2, facilitated glucose transporter member 1 (SLC2A1),GLUT-1 (Tumor Progression and Mesothelioma Marker)<br>Cellular localisation: Cell Surface |
| Molecular Weight: | 55kDa |
| Gene ID: | 6513, 473721 |
| UniProt: | P11166 |
| Pathways: | Sensory Perception of Sound, Dicarboxylic Acid Transport, Warburg Effect |

## Application Details

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| Application Notes: | Known_Application: ELISA (For coating use Ab at 1-2 µg/mL order Ab without BSA), Flow Cytometry (1-2 µg/million cells),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.<br>Positive_Control: K562, A431, MDA-MB-231 cells. Erythrocytes. Mesothelioma or breast, colon and ovarian carcinoma. |
| Restrictions: | For Research Use only |

## Handling

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| Concentration: | 1.0 mg/mL |
| Buffer: | Prepared in 10 mM PBS, WITHOUT BSA and Azide. |
| Preservative: | Azide free |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date: | 24 months |