Datasheet for ABIN6940594

anti-GLUT1 antibody (AA 203-305)

7 Images

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Overview

Quantity:	100 µg
Target:	GLUT1 (SLC2A1)
Binding Specificity:	AA 203-305
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GLUT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human GLUT1 protein (around aa 203-305) (exact sequence is proprietary)
Clone:	GLUT1-2475
Isotype:	IgG2b kappa
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 barrier. Glut-1 is expressed at variable levels in many human tissues. Overexpression of Glut-1

Product Details

	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).
Purification:	Purified by Protein A/G

Target Details

Target:	GLUT1 (SLC2A1)
Alternative Name:	SLC2A1 (SLC2A1 Products)
Molecular Weight:	55kDa
Gene ID:	6513
UniProt:	P11166
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport, Warburg Effect

Application Details

Application Notes:	Positive Control: K562, A431, MDA-MB-231 cells. Erythrocytes. Mesothelioma or breast, colon and ovarian carcinoma. Known Application: ELISA (For coating use Ab at 1-2 µg/mL order Ab without BSA), Flow Cytometry (1-2 µg/million cells),Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

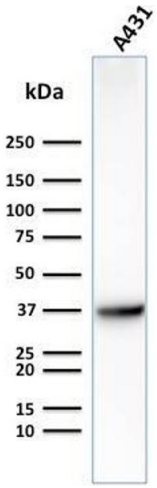
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

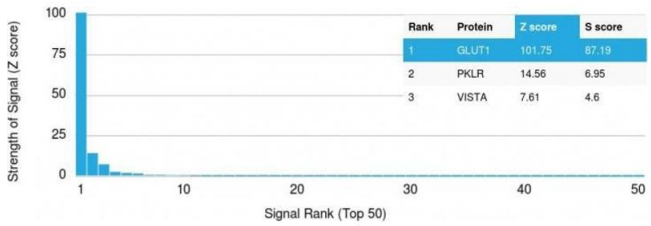
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



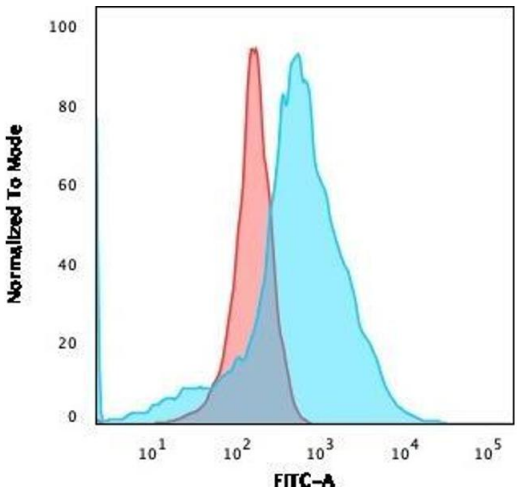
Western Blotting

Image 1. Western Blot Analysis of Human A431 cell lysate using GLUT-1 Mouse Monoclonal Antibody (GLUT1/2475).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using GLUT-1 Mouse Monoclonal Antibody (GLUT1/2475). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometry

Image 3. Flow Cytometric Analysis of K562 cells using GLUT-1 Mouse Monoclonal Antibody (GLUT1/2475) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the product details page for more images. Overall 7 images are available for ABIN6940594.