Datasheet for ABIN6940597

Recombinant anti-GLUT1 antibody (AA 203-305)

3 Images

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Overview

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:	Immunohistochemistry (IHC), ELISA, 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:	GLUT1-3132R
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

	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).
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),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

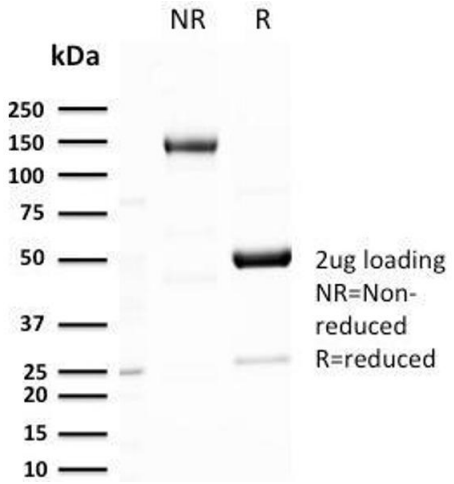
Handling

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

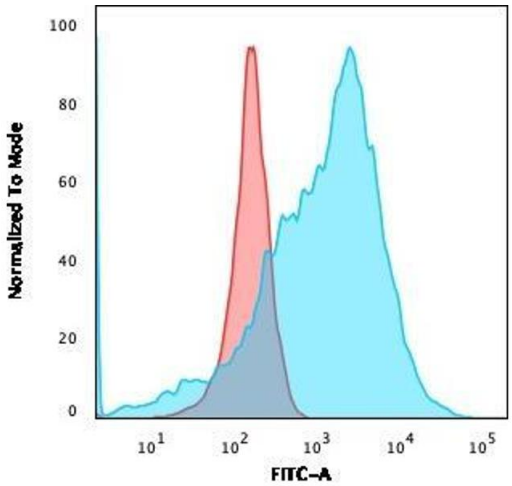
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



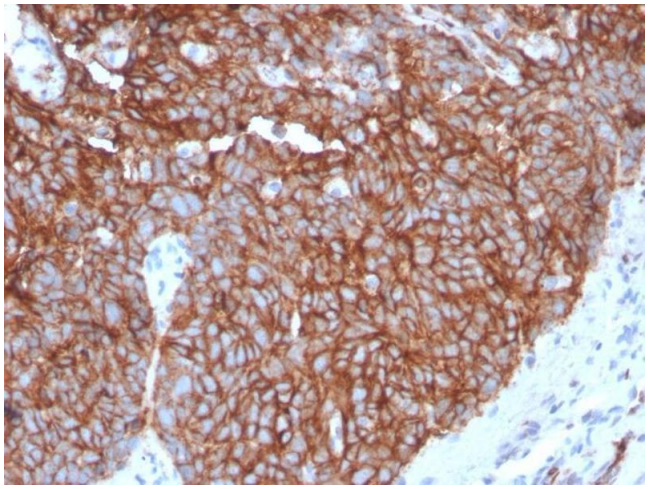
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified GLUT-1 Recombinant Rabbit Monoclonal Antibody (GLUT1/3132R). Confirmation of Purity and Integrity of Antibody.



Flow Cytometry

Image 2. Flow Cytometric Analysis of K562 cells using GLUT-1 Recombinant Rabbit Monoclonal Antibody (GLUT1/3132R) followed by goat anti-rabbit IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Tongue stained with GLUT-1 Recombinant Rabbit Monoclonal Antibody (GLUT1/3132R).