BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Glut4 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP03606
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Glut4. AA range:222-271
Mol wt	53924
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	Glut4 Antibody
Synonyms	SLC2A4; GLUT4; Solute carrier family 2; facilitated glucose transporter member 4; Glucose transporter type 4, insulin-responsive; GLUT-4

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

GLUT3 (SLC2A3) belongs to the glucose transporter family (GLUTs) which mediates the transport of glucose across cellular membranes in mammalian cells. There are three subclasses within GLUTs: class I comprises the classical transporters GLUT1-4 and GLUT14; class II contains the "odd" isoforms GLUT5, 7, 9, and 11; the isoforms GLUT6, 8, 10, 12 and the proton driven myoinositol transporter HMIT (GLUT13) belong to class III. GLUT3 is considered as a neuron-specific glucose transporter because of its dominant expression in the brain in various species. However, besides the brain GLUT3 is also expressed in tissues with high demand for glucose such as sperm, preimplantation embryos, circulating white blood cells, and an array of carcinoma cell lines. ecently GLUT3 has been identified as a sensitive and specific marker for embyonal carcinomas and yolk tumors. he GLUT14 is believed to be the duplicate gene of GLUT3 given to the high identity in sequence between them. This antibody was generated against the internal region of human GLUT3 and may cross-react with GLUT14.

Recommended Dilution

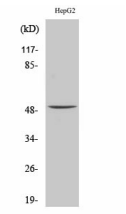
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

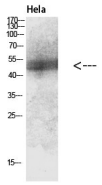
ELISA: 1: 40000

Not yet tested in other applications.

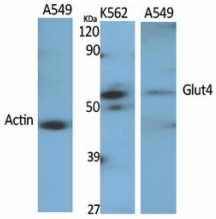
Images



Western Blot analysis of HepG2 cells using Glut4 Polyclonal Antibody diluted at 1:2000

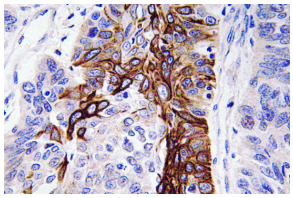


Western blot analysis of Hela Lysate, antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000



Western Blot analysis of various cells using Glut4 Polyclonal Antibody diluted at 1:2000

Western blot analysis of lysate from HepG2 cells, using Glut4 antibody.



Immunohistochemistry analysis of Glut4 antibody in paraffin-embedded human lung carcinoma tissue.

Storage

-20°C for one year

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