

GLUT3 Ab

Cat.#: AF0174
Size: 100ul,200ul

Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 54kDa
Clonality: Polyclonal

Application: WB: 1:500~1:3000 IHC: 1:50~1:200, IF/ICC 1:100-1:500

Reactivity: Human

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity: GLUT3 Ab detects endogenous levels of total GLUT3.

Immunogen: A synthesized peptide derived from human GLUT3.

Uniprot: P11169

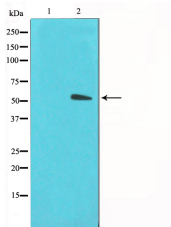
Description: GLUT3 an integral membrane facilitative glucose transporter. One of 13 members of the human equilibrative glucose transport protein family. Its surface expression is induced by insulin. It is restricted in humans to brain, testis (in the spermatozoa), and skeletal muscle, mostly in triads of slow-twitch fibres. Detected only in the brain of mouse and rat.

Subcellular Location: Membrane.

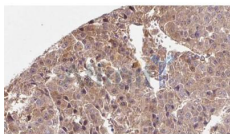
Tissue Specificity: Highly expressed in brain. Expressed in many tissues.

Similarity: Transport is mediated via a series of conformation changes, switching between a conformation where the substrate-binding cavity is accessible from the outside, and a another conformation where it is accessible from the cytoplasm. Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily. [View classification]

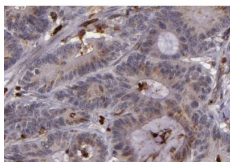
Storage Condition and Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.



Western blot analysis on LOVO cell lysate using GLUT3 Ab, The lane on the left is treated with the antigen-specific peptide.



AF0174 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



IHC analysis of human colon tissue, using GLUT3 Ab at 1/100.



AF0174 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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