

## ***Anti-GLUT1 (Slc2a1)***

*(Glucose transporter 1)*

**Code Number** : GLUT1-Rb-Af1020 (rabbit, RRID : AB\_2571769)

: GLUT1-GP-Af610 (guinea pig, RRID : AB\_2571770)

**Size** : 20 µg and 50 µg / See label on vial  
(affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200 µg/ml in PBS with 0.05% NaN<sub>3</sub>.

**Storage** : Store at cool temp. (2-10°C)

The antibody can be stored at 2-10°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

**Species** : rabbit / guinea pig , polyclonal

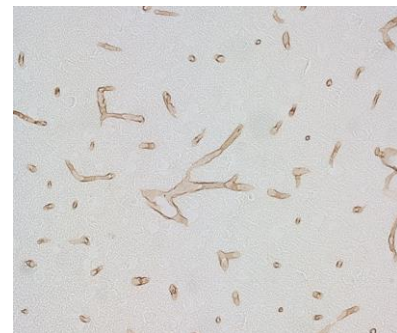
**Antigen** : mouse Glucose transporter 1,  
C-terminal 33aa (M023384)

**Specificity** : mouse (others not tested)

Immunoblot detects a single protein band at 40 kDa.

In the brain, GLUT1 is expressed mainly in capillary,  
and weakly in astrocytes.

No cross-reactivity to GLUT3 is confirmed in HEK cells transfected with GLUT1 or GLUT3 cDNA.



**Applications** : In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

**Research Use** : For research use only, not for use in diagnostic procedures.

**Remarks** :

**Reference** : 1) Sakai, K., Shimizu, H., Koike, T., Furuya S., Watanabe, M. (2003) Neutral amino acid transporter ASCT1 is preferentially expressed in L-Ser-synthetic/storing glial cells in the

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mouse with transient expression in developing capillaries. **J. Neurosci.** 23:550-560.

2) Tachikawa, M., Fukaya, M., Terasaki, T., Ohtsuki, S., Watanabe, M. (2004) Distinct cellular expressions of creatine synthetic enzyme GAMT and creatine kinases uCK-Mi and CK-B suggest novel neuron-glia relationship for brain energy homeostasis. **Eur. J. Neurosci.**, 20:144-160.

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