9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

39-2082: Polyclonal Antibody to Anti-Glut1 Antibody(Discontinued)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	SLC2A1
Gene ID :	6513
Uniprot ID :	P11166
Alternative Name :	Solute carrier family 2, facilitated glucose transporter member 1; Glucose transporter type 1, erythrocyte/brain; GLUT-1; HepG2 glucose transporter; SLC2A1; GLUT1
Isotype :	Rabbit IgG

Description

GLUT1, also known as SLC2A1, is a major glucose transporter in the mammalian blood-brain barrier whose gene is mapped to 1p35-p31.3 and contains 10 exons. It is present at high levels in primate erythrocytes and brain endothelial cells. Not only can transport dehydroascorbic acid(the oxidized form of vitamin C) into the brain1, GLUT1 is also likely to contribute to HTLV-associated disorders through interacting with HTLV envelope glycoproteins. Functionally, GLUT1 deficiency causes a decrease in embryonic glucose uptake and apoptosis, which may be involved in diabetic embryopathy, by contrast, an increased expression of GLUT1 in some malignant tumors may suggest a role for glucose-derivative tracers to detect in vivo thyroid cancer metastases by positron-emission tomography scanning.

Product Info

Amount :	100 µg/vial
Purification :	Immunogen affinity purified.
Content :	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage condition :	At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.1-0.5µg/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1µg/ml

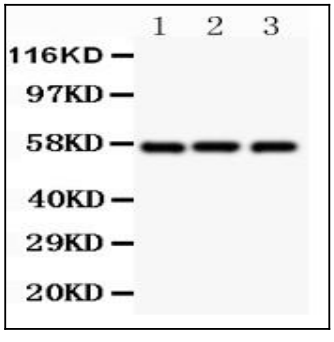


Figure 1: Anti-SLC2A1 antibody(39-2082). Western blotting: Lanes: Anti SLC2A1(39-2082) at 0.5ug/ml, Lane 1: Rat Liver Tissue Lysate at 50ug, Lane 2: SW620 Whole Cell Lysate at 40ug, Lane 3: 293T Whole Cell Lysate at 40ug. Predicted band size: 57 kDa. Observed band size: 57kDa.

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