

**Product Name: GLUT1 (17B12) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe11498**



## Summary

<b>Production Name</b>	GLUT1 (17B12) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	SLC2A1
<b>Alternative Names</b>	DYT17; DYT18; Glucose transporter type 1, erythrocyte/brain; GLUT; GLUT-1; GLUT1; GTR1; HepG2 glucose transporter;
<b>Gene ID</b>	6513.0
<b>SwissProt ID</b>	P11166.

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000
<b>Molecular Weight</b>	54kDa

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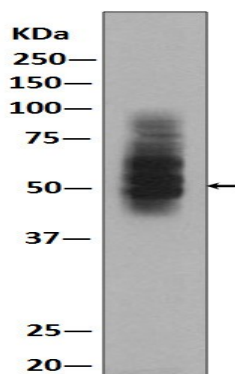


## Background

GLUT1 an integral membrane protein that plays an important role in the glycolytic pathway by serving as a uniporter for glucose. One of 13 members of the human equilibrative glucose transport protein family. Transports a wide range of aldoses, including both pentoses and hexoses, and dehydroascorbic acid. Shown to transport water against an osmotic gradient. Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:<a href="http://www.uniprot.org/citations/18245775" target="\_blank">18245775</a>, PubMed:<a href="http://www.uniprot.org/citations/19449892" target="\_blank">19449892</a>, PubMed:<a href="http://www.uniprot.org/citations/25982116" target="\_blank">25982116</a>, PubMed:<a href="http://www.uniprot.org/citations/27078104" target="\_blank">27078104</a>, PubMed:<a href="http://www.uniprot.org/citations/10227690" target="\_blank">10227690</a>). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:<a href="http://www.uniprot.org/citations/18245775" target="\_blank">18245775</a>, PubMed:<a href="http://www.uniprot.org/citations/19449892" target="\_blank">19449892</a>). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (PubMed:<a href="http://www.uniprot.org/citations/10227690" target="\_blank">10227690</a>). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity).

## Research Area

## Image Data



Western blot analysis of GLUT1 expression in HepG2 lysate.

## Note

For research use only.

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