

**Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody**  
Catalog # ABO13627**Specification****Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">P11166</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 6513

**Other Names**

Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1 ([HGNC:11005](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11005))

**Calculated MW**

54084 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50

**Subcellular Localization**

Cell membrane; Multi-pass membrane protein. Melanosome. Localizes primarily at the cell surface. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Tissue Specificity**

Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Glucose Transporter GLUT1

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Protein Information**

**Name** SLC2A1 ([HGNC:11005](#))

**Function**

Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:<a href="http://www.uniprot.org/citations/10227690" target="\_blank">10227690</a>, PubMed:<a href="http://www.uniprot.org/citations/10954735" target="\_blank">10954735</a>, 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/32860739" target="\_blank">32860739</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). Required for mesendoderm differentiation (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor inner segment {ECO:0000250|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:24847886, PubMed:25982116). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

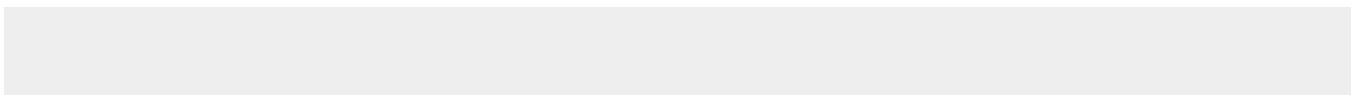
**Tissue Location**

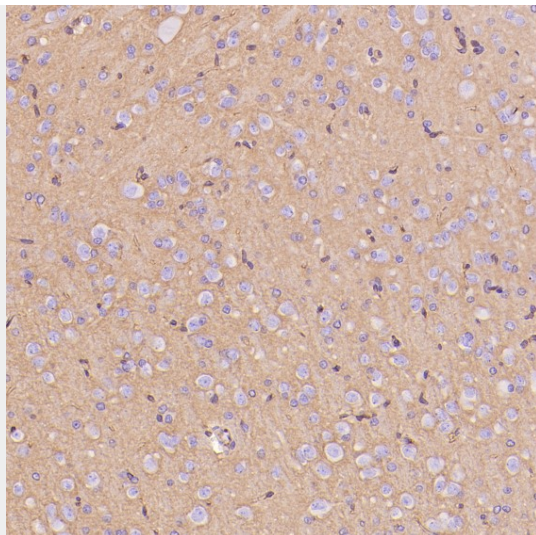
Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

**Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Protocols**

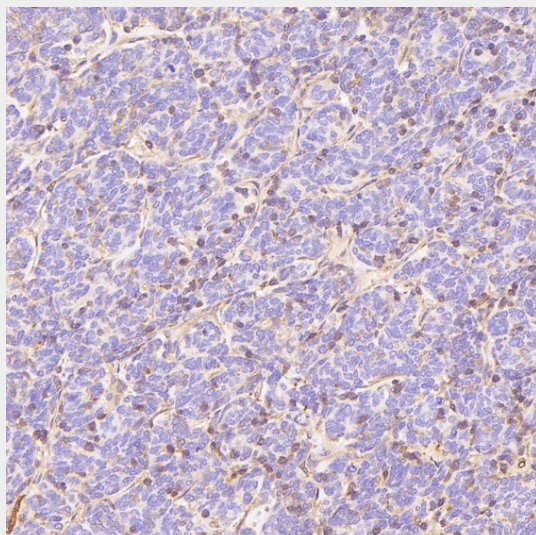
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

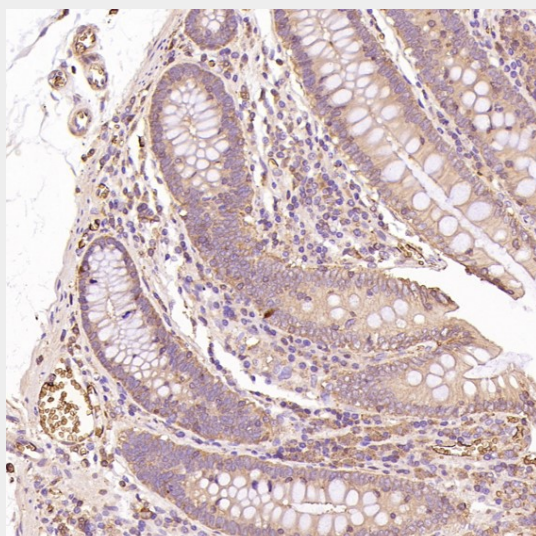
**Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Images**



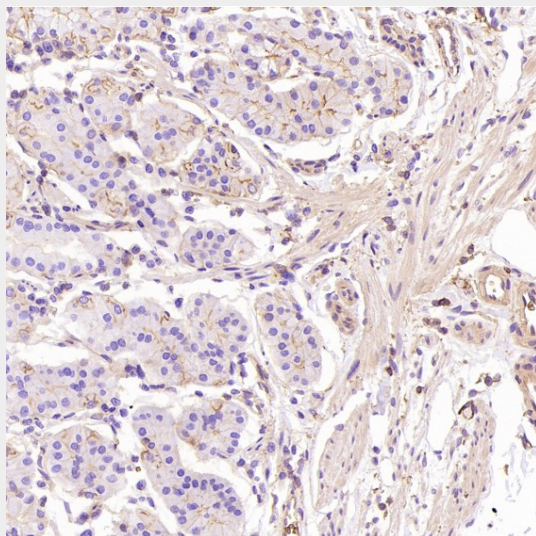
Immunohistochemical analysis of paraffin-embedded Rat hippocampus , using the Antibody at 1:300 dilution.



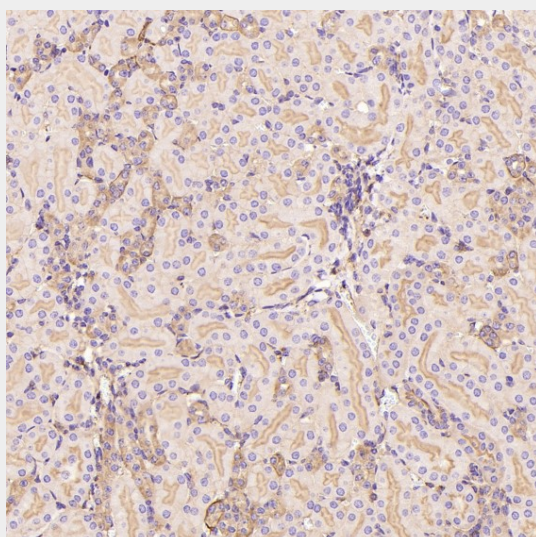
Immunohistochemical analysis of paraffin-embedded Human thymoma, using the Antibody at 1:200 dilution.



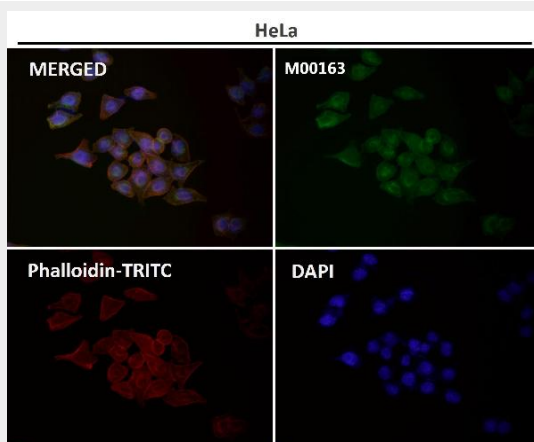
Immunohistochemical analysis of paraffin-embedded Human colon, using the Antibody at 1:200 dilution.



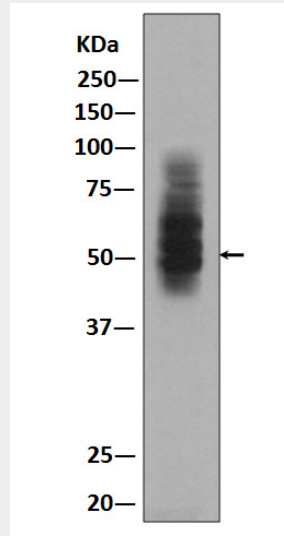
Immunohistochemical analysis of paraffin-embedded Human stomach, using the Antibody at 1:800 dilution.



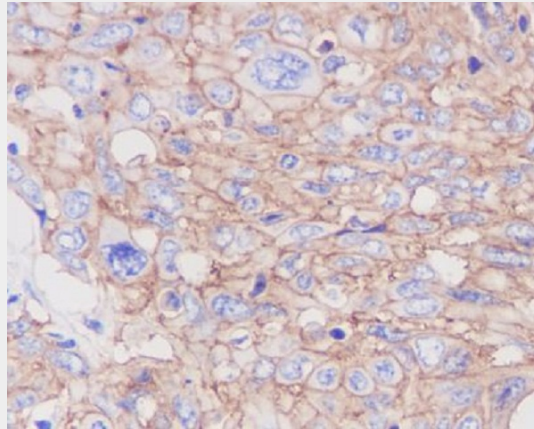
Immunohistochemical analysis of paraffin-embedded Mouse kidney, using the Antibody at 1:300 dilution.



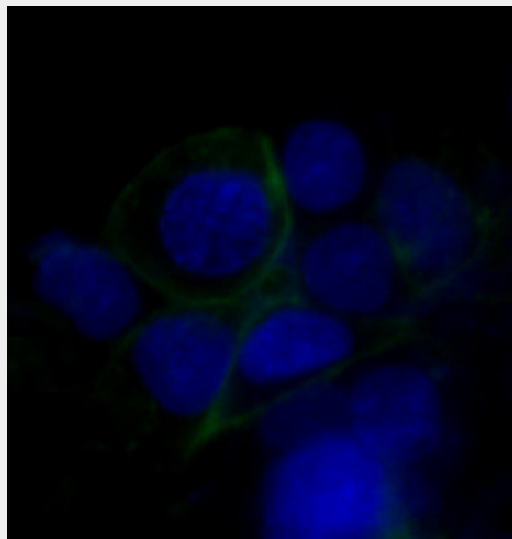
Immunofluorescent analysis using the Antibody at 1:50 dilution.



Western blot analysis of GLUT1 expression in HepG2 lysate.



Immunohistochemical analysis of paraffin-embedded human cervix cancer, using GLUT1 Antibody.



Immunofluorescent analysis of HepG2 cells, using GLUT1 Antibody.