

**Glut1 Polyclonal Antibody**  
**Catalog # AP70111****Specification**

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**Glut1 Polyclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P, IF          |
| Primary Accession | <a href="#">P11166</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |

**Glut1 Polyclonal Antibody - Additional Information****Gene ID** 6513**Other Names**

SLC2A1; GLUT1; Solute carrier family 2; facilitated glucose transporter member 1; Glucose transporter type 1, erythrocyte/brain; GLUT-1; HepG2 glucose transporter

**Dilution**

WB~~1:1000

IHC-P~~N/A

IF~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Glut1 Polyclonal 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

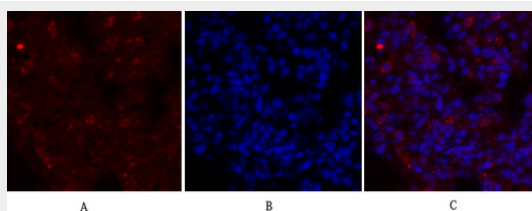
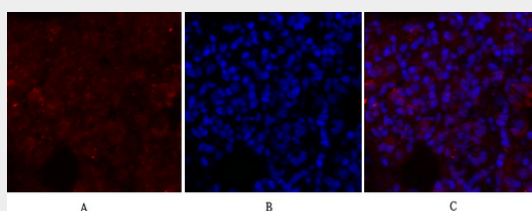
Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

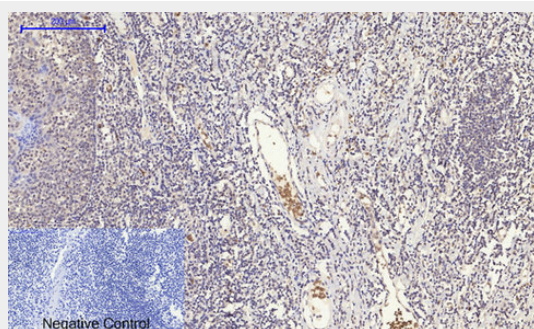
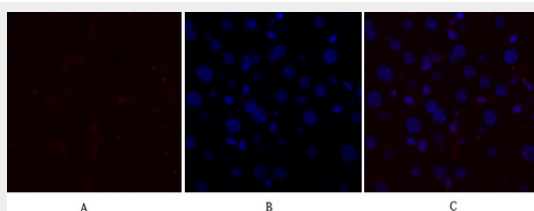
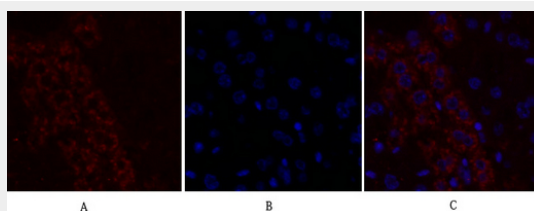
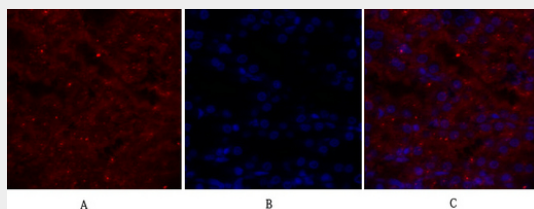
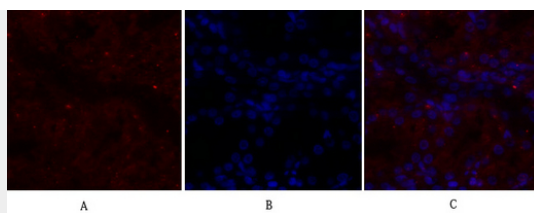
### Glut1 Polyclonal Antibody - Protocols

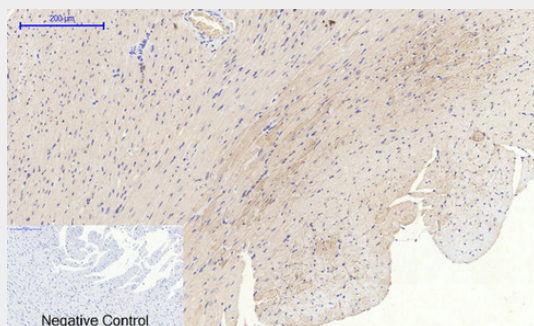
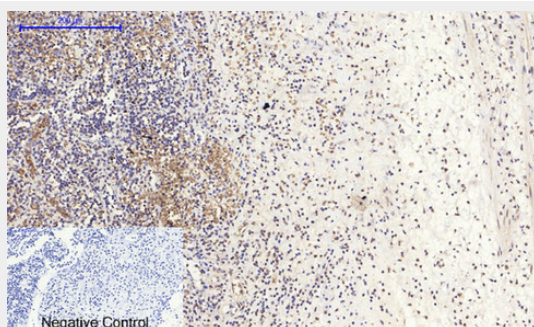
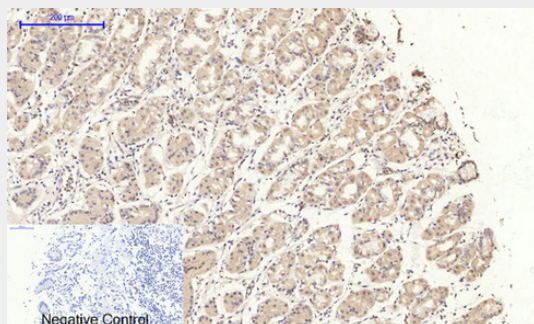
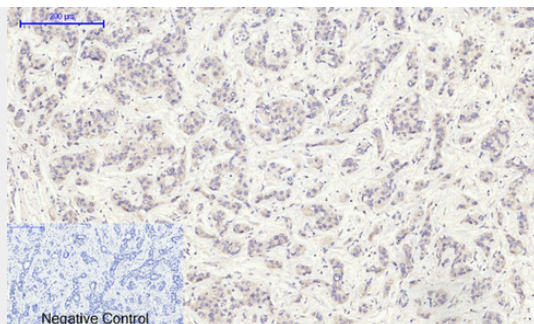
Provided below are standard protocols that you may find useful for product applications.

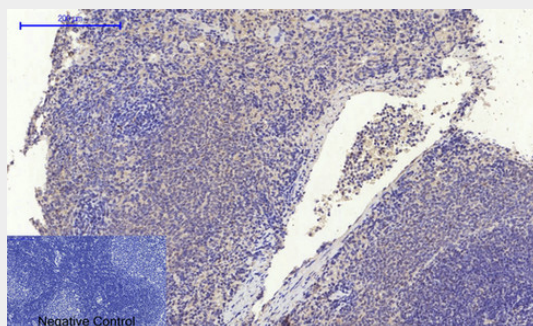
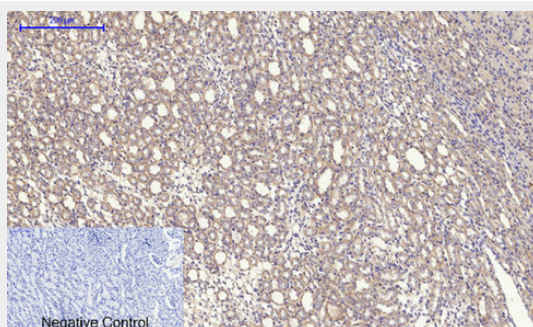
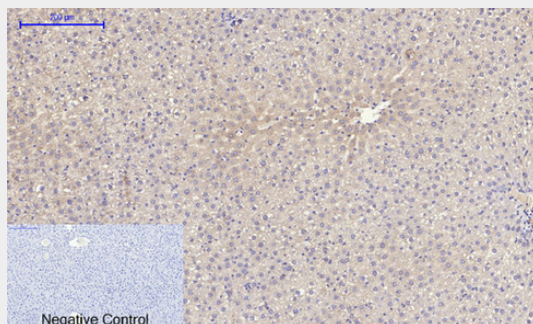
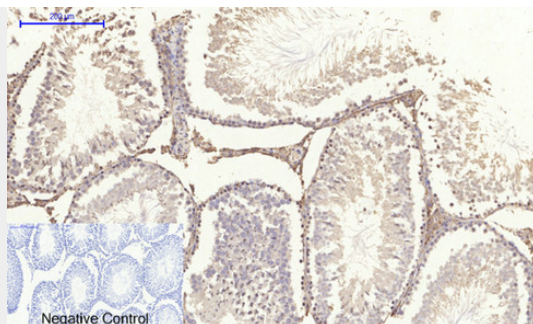
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

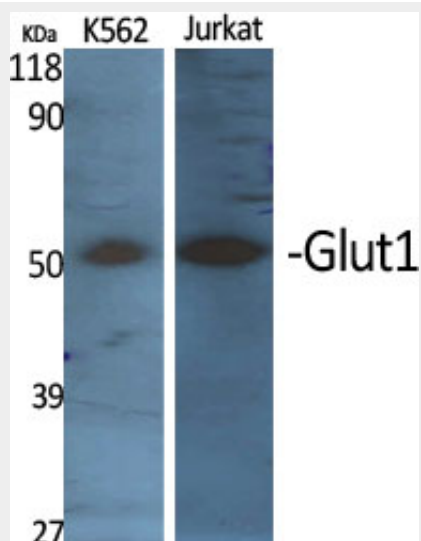
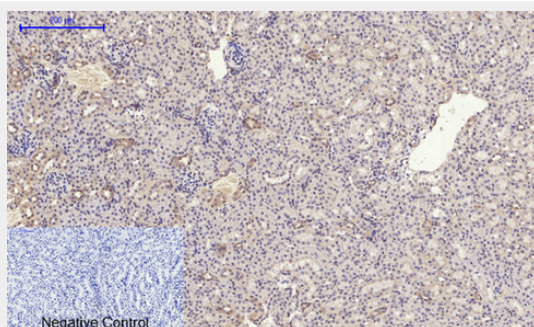
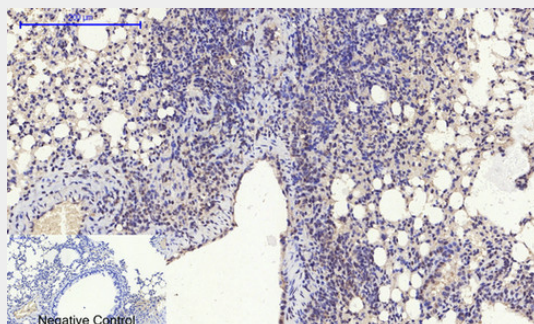
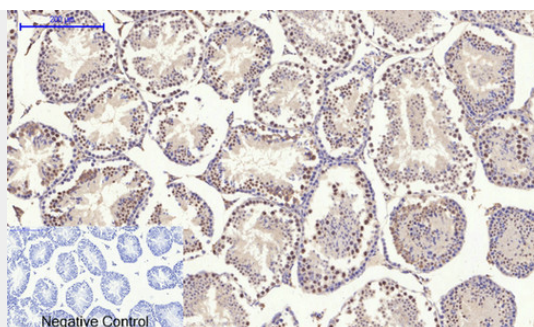
### Glut1 Polyclonal Antibody - Images

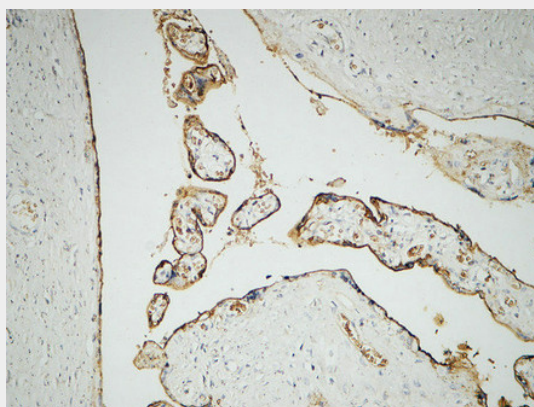
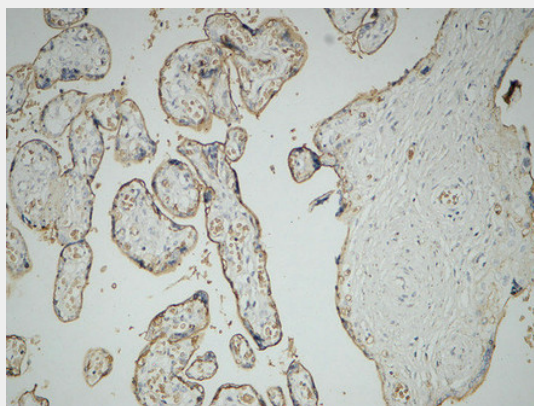
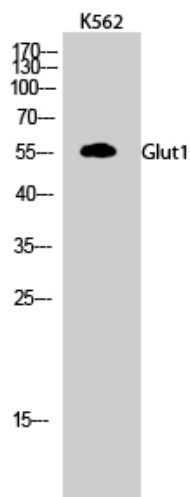












### Glut1 Polyclonal Antibody - Background

Facilitative glucose transporter. This isoform may be responsible for constitutive or basal glucose uptake. Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses.