10320 Camino Santa Fe, Suite G
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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	P11166
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)

Calculated MW
54084 MW KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
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:10227690, PubMed:10954735, PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:32860739). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:18245775, PubMed:19449892). 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:10227690). 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 Cytomety
- Cell Culture

Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody - Images

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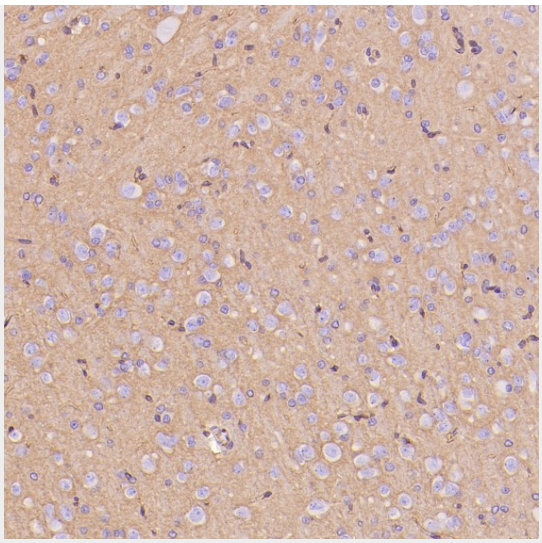
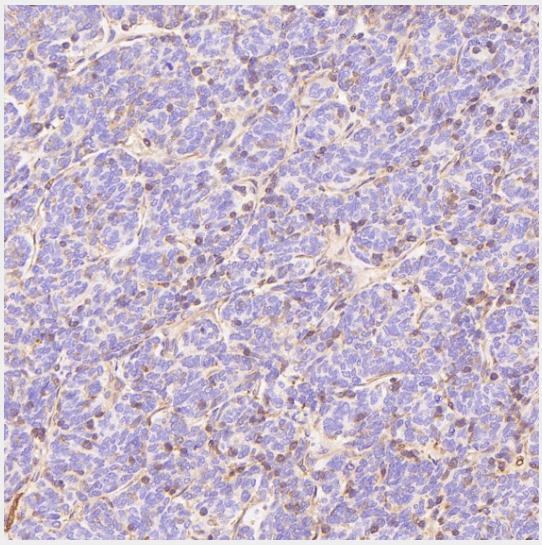
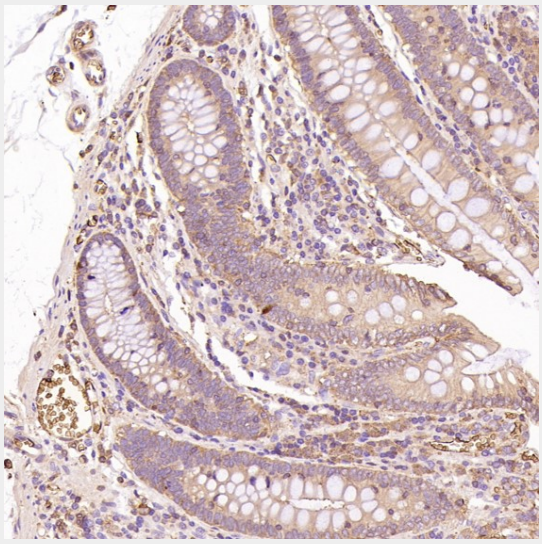


Immunohistochemical analysis of paraffin-embedded Rat hippocampus , using the Antibody at 1:300 dilution.



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



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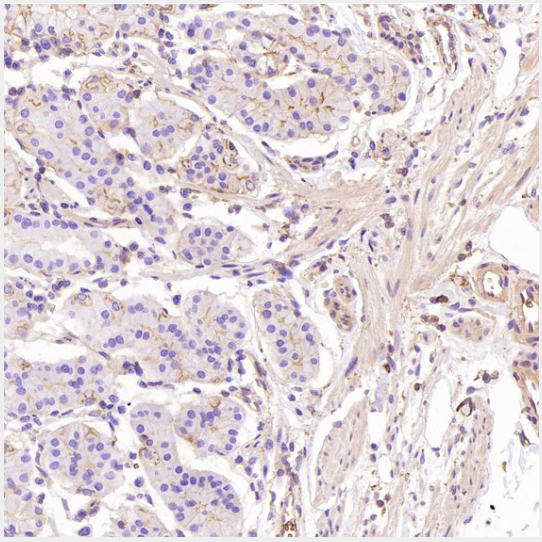
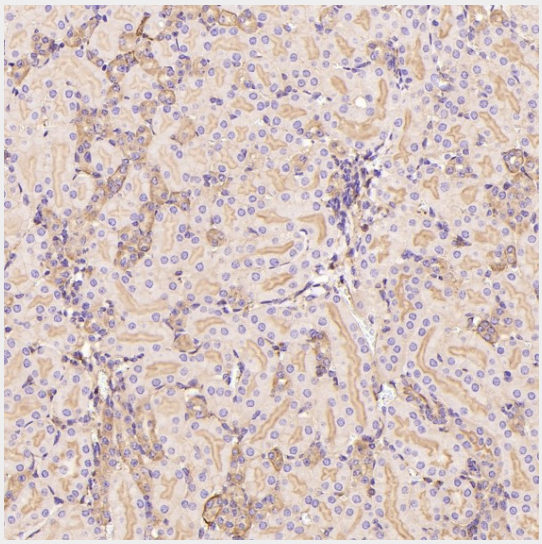
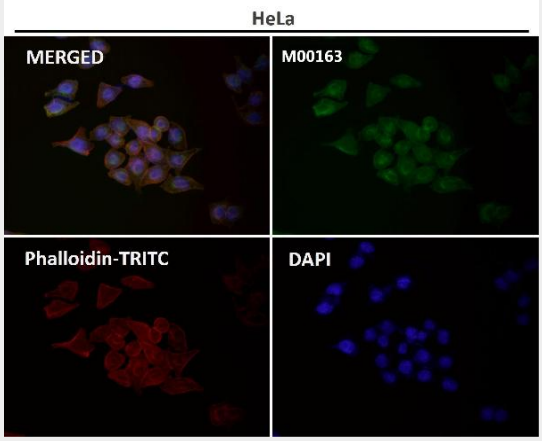
Immunohistochemical analysis of paraffin-embedded Human colon, using the Antibody at 1:200 dilution.



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.



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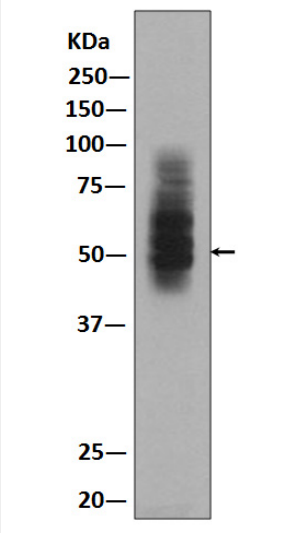
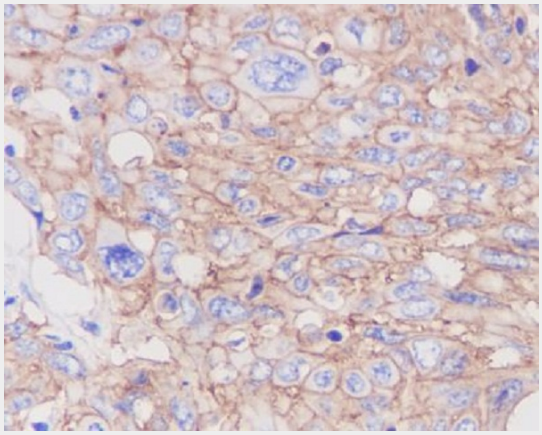
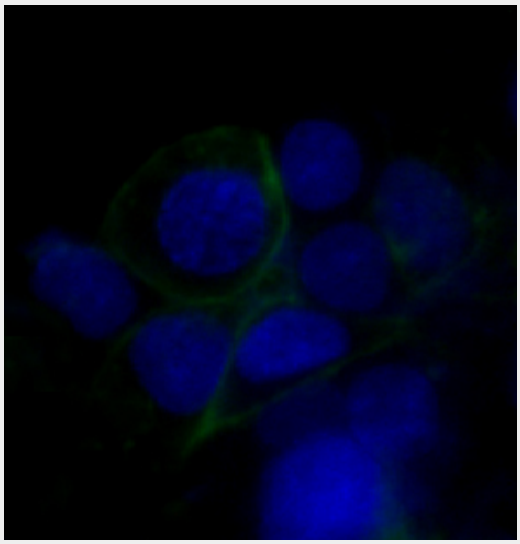
Immunofluorescent analysis using the Antibody at 1:50 dilution.



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.