

# Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody

Catalog # ABO13627

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC, FC                                                                                                                                |
| <b>Primary Accession</b> | <a href="#">P11166</a>                                                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                                                              |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                          |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                   |
| <b>Clonality</b>         | Monoclonal                                                                                                                                          |
| <b>Format</b>            | Liquid                                                                                                                                              |
| <b>Description</b>       | Anti-GLUT1 SLC2A1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>                  | 6513                                                                                                                                                                                       |
| <b>Other Names</b>              | Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1 ( <a href="#">HGNC:11005</a> ) |
| <b>Calculated MW</b>            | 54084                                                                                                                                                                                      |
| <b>Application Details</b>      | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50                                                                                                                          |
| <b>Subcellular Localization</b> | 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.         |
| <b>Tissue Specificity</b>       | Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues..                                                                                          |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                  |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                        |
| <b>Clone Names</b>              | Clone: CGG-19                                                                                                                                                                              |
| <b>Immunogen</b>                | A synthesized peptide derived from human Glucose Transporter GLUT1                                                                                                                         |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                    |
| <b>Storage</b>                  | 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.                                                 |

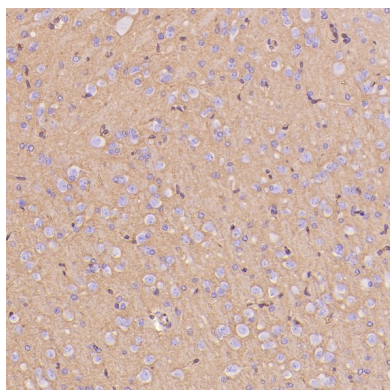
## Protein Information

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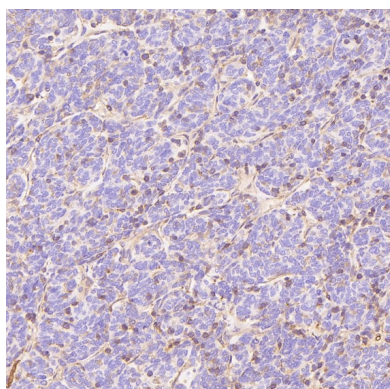
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | SLC2A1 ( <a href="#">HGNC:11005</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed: <a href="#">10227690</a> , PubMed: <a href="#">10954735</a> , PubMed: <a href="#">18245775</a> , PubMed: <a href="#">19449892</a> , PubMed: <a href="#">25982116</a> , PubMed: <a href="#">27078104</a> , PubMed: <a href="#">32860739</a> ). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed: <a href="#">18245775</a> , PubMed: <a href="#">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="#">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). |
| <b>Cellular Location</b> | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tissue Location</b>   | Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Images

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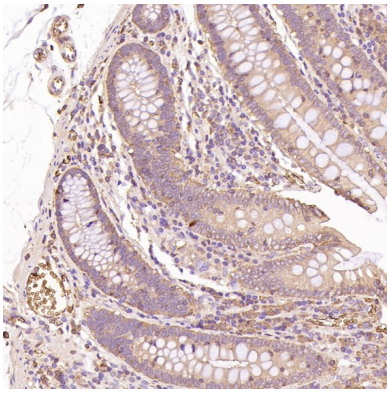


Immunohistochemical analysis of paraffin-embedded Rat hippocampus , using the Antibody at 1:300 dilution.

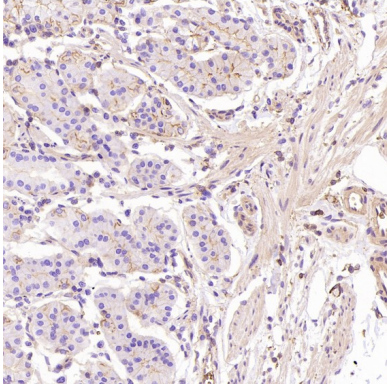


Immunohistochemical analysis of paraffin-embedded Human thymoma, using the Antibody at 1:200 dilution.

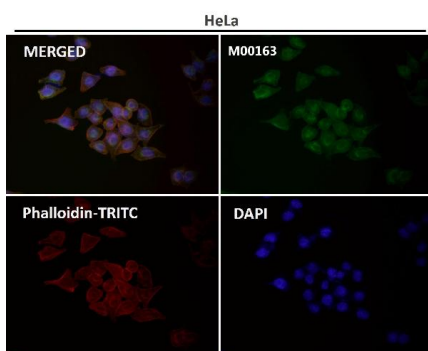
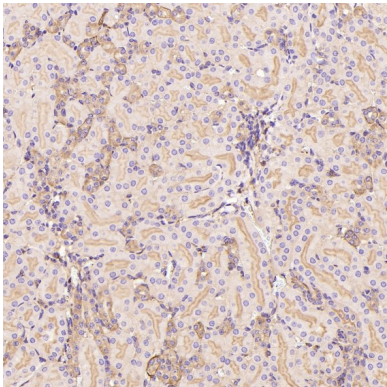
Immunohistochemical analysis of paraffin-embedded Human colon, using the Antibody at 1:200 dilution.



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

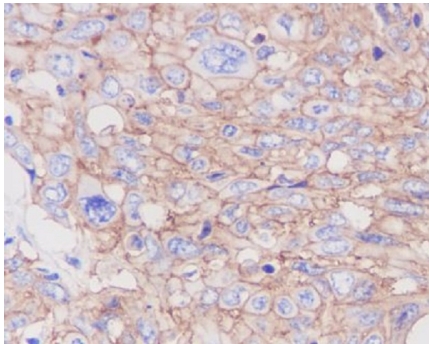
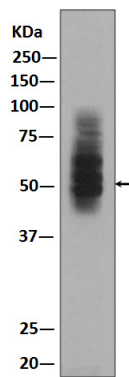


Immunohistochemical analysis of paraffin-embedded Mouse kidney, using the Antibody at 1:300 dilution.

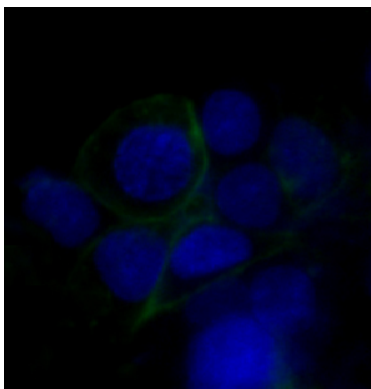


Immunofluorescent analysis using the Antibody at 1:50 dilution.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.