


Anti-Glucose Transporter GLUT1 antibody ab15309

★★★★★ [15 Abreviews](#) [153 References](#) [4 图像](#)

概述

产品名称	Anti-Glucose Transporter GLUT1抗体
描述	兔多克隆抗体to Glucose Transporter GLUT1
宿主	Rabbit
经测试应用	适用于: ICC/IF, IHC-P
种属反应性	与反应: Human 预测可用于: Rat 
免疫原	Synthetic peptide within Human Glucose Transporter GLUT1 aa 450 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P11166
常规说明	<p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.40 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab15309于以下的经测试应用

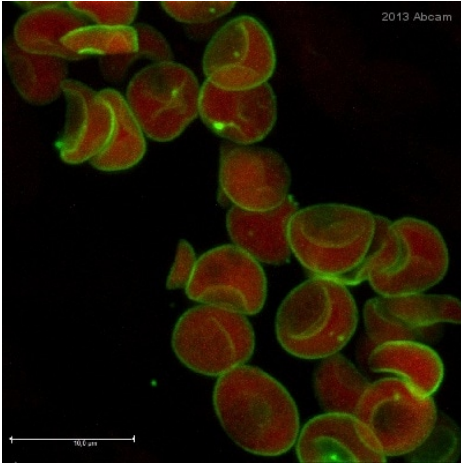
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration. See Abreview.
IHC-P	★★★★★ (5)	1/200.

靶标

功能	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.
组织特异性	Expressed at variable levels in many human tissues.
疾病相关	<p>Defects in SLC2A1 are the cause of glucose transporter type 1 deficiency syndrome (GLUT1DS) [MIM:606777]; also known as blood-brain barrier glucose transport defect. This disease causes a defect in glucose transport across the blood-brain barrier. It is characterized by infantile seizures, delayed development, and acquired microcephaly.</p> <p>Defects in SLC2A1 are the cause of dystonia type 18 (DYT18) [MIM:612126]. DYT18 is an exercise-induced paroxysmal dystonia/dyskinesia. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYT18 is characterized by attacks of involuntary movements triggered by certain stimuli such as sudden movement or prolonged exercise. In some patients involuntary exertion-induced dystonic, choreoathetotic, and ballistic movements may be associated with macrocytic hemolytic anemia.</p>
序列相似性	Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR.
细胞定位	Cell membrane. Melanosome. Localizes primarily at the cell surface (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

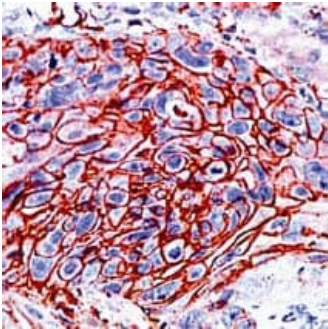
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucose Transporter GLUT1 antibody (ab15309)

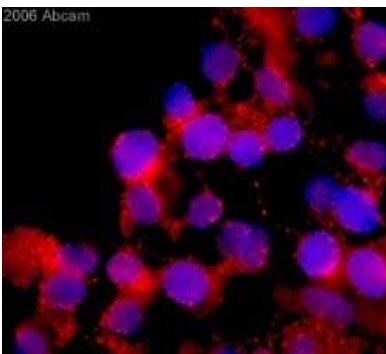
This image is courtesy of an Abreview submitted by Heiko Locher

ab15309 staining Glucose Transporter GLUT1 (green) in Human red blood cells tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 30 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer, pH 6.0. Samples were incubated with primary antibody (1/500 in PBS-T + 1% PBS) for 12 hours. An Alexa Fluor® 488-conjugated Donkey anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody. Red - autofluorescence of erythrocytes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucose Transporter GLUT1 antibody (ab15309)

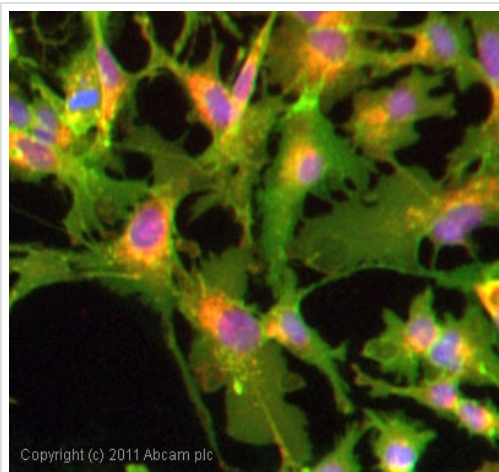
ab15309 staining Glucose Transporter GLUT1 in human esophagus by Immunohistochemistry (FFPE-sections).



Immunocytochemistry/ Immunofluorescence - Anti-Glucose Transporter GLUT1 antibody (ab15309)

ab15309 at a 1/100 dilution staining rat cells (neural stem cells from adult subventricular zone) by Immunocytochemistry/Immunofluorescence. The cells were incubated with the antibody for 18 hours and then bound antibody was detected using a Cy3 conjugated Goat anti-rabbit IgG (H + L).

This image is courtesy of an Abreview submitted by **Martin Maurer**.



Immunocytochemistry/ Immunofluorescence - Anti-Glucose Transporter GLUT1 antibody (ab15309)

ICC/IF image of ab15309 stained HepG2 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab15309, 1µg/ml) overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit IgG - H&L, pre-adsorbed (**ab96899**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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