

SLC2A5 Monoclonal Antibody (14C8)

Catalog NumberMA1-036

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG1	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (IHC)	Dilution *1:800
Clone	14C8	Western Blot (WB)	1:1,000
Immunogen	Protein expressed in 293T cell transfected with human SLC2A5 expression vector.	Immunocytochemistry (ICC/IF)	1:100
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (IHC)	See 1 publications below
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Protein A		
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol		
Contains	0.05% sodium azide		
Storage Conditions	-20°C		

Product specific information

This antibody requires overnight incubation in a Western blot for optimal performance. Do not use this antibody in a Fast Western blotting procedure.

Background/Target Information

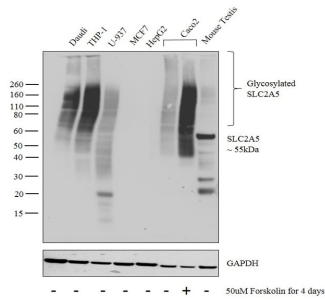
Cytochalasin B-sensitive carrier. Seems to function primarily as a fructose transporter.

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Product Images For SLC2A5 Monoclonal Antibody (14C8)

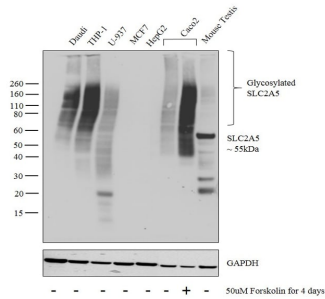
SLC2A5 Antibody (MA1-036) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of Daudi (Lane 1), THP-1 (Lane 2), U-937 (Lane 3), MCF7 (Lane 4), HepG2 (Lane 5), Caco2 (Lane 6), Caco2 treated with Forskolin (50uM for 4 days) (Lane 7) and tissue extracts of Mouse Testis (Lane 8). The blot was probed with Anti-SLC2A5 Monoclonal Antibody (Product # MA1-036, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/ml, 1:4000 dilution). High molecular weight corresponding to the glycosylated forms of SLC2A5 were observed in all the cell lines tested except MCF7 and HepG2. An 5kDa band corresponding to SLC2A5 was observed in Mouse Testis and the protein was also observed to be induced upon treatment of Caco2 cells with Forskolin.



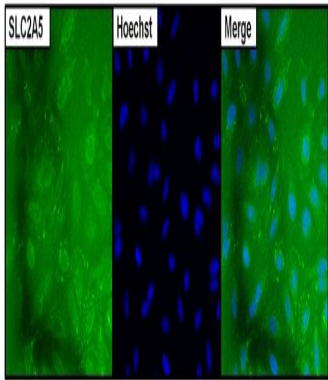
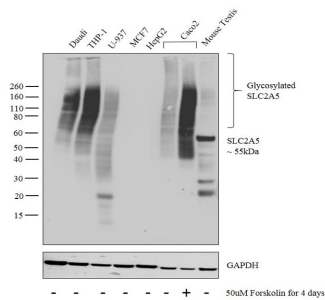
SLC2A5 Antibody (MA1-036)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lysates owing to their inherent genetic constitution. Relatively high expression of SLC2A5 was observed in all cell lysates tested in comparison to lower expression in MCF7 and HepG2 using product (Product # MA1-036) in western blot. {RE}



SLC2A5 Antibody (MA1-036)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of SLC2A5 using with Anti-SLC2A5 Monoclonal Antibody (Product # MA1-036) shows an increase in SLC2A5 upon treatment of Caco2 cells with Forskolin. {TM}



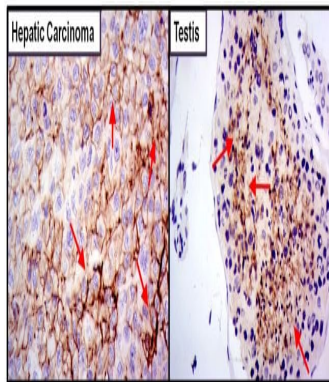
SLC2A5 Antibody (MA1-036) in ICC/IF

Immunofluorescent analysis of SLC2A5 using anti-SLC2A5 monoclonal antibody (Product # MA1-036) (shown in green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a mouse monoclonal antibody recognizing SLC2A5 (Product # MA1-036), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were then washed with PBS and incubated with DyLight 488 goat-anti-mouse secondary antibody (Product # 35503) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.

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SLC2A5 Antibody (MA1-036) in IHC (P)

Immunohistochemistry was performed on cancer biopsies of deparaffinized human testis and hepatic carcinoma tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer for 20 minutes at 95°C. Following antigen retrieval tissues were blocked in 10% normal goat serum (Product # 31873) for 20 minutes at room temperature. Tissues were then probed at a dilution of 1:800 with a mouse monoclonal antibody recognizing SLC2A5 (Product # MA1-036) overnight at 4°C in a humidified chamber. Detection was performed using a goat anti-mouse HRP secondary antibody followed by colorimetric detection using DAB substrate. Tissues were counterstained with hematoxylin and prepped for mounting. Images were taken at 400X magnification. Results demonstrate membrane/cytoplasmic localization of SLC2A5.

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PubMed References For SLC2A5 Monoclonal Antibody (14C8)

1 Immunohistochemistry References

Species / Dilution	Summary
Mouse / 1:1000	<p>MA1-036 was used in Immunohistochemistry-immunofluorescence to show that dietary fructose improves the survival of intestinal cells and increases intestinal villus length in several mouse models.</p> <p>Nature (Sep 2021; 597: 263)</p> <p>"Dietary fructose improves intestinal cell survival and nutrient absorption."</p> <p>Author(s): Taylor SR,Ramsamooj S,Liang RJ,Katti A,Pozovskiy R,Vasan N,Hwang SK,Nahiyaan N,Francoeur NJ,Schatoff EM,Johnson JL,Shah MA,Dannenberg AJ,Sebra RP,Dow LE,Cantley LC,Rhee KY,Goncalves MD</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41586-021-03827-2</p>

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