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SLC5A2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SLC5A2.
Catalog # AT3930a

Product Information

Application	WB, E
Primary Accession	P31639
Other Accession	NM_003041
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3G8
Calculated MW	72897

Additional Information

Gene ID	6524
Other Names	Sodium/glucose cotransporter 2, Na(+)/glucose cotransporter 2, Low affinity sodium-glucose cotransporter, Solute carrier family 5 member 2, SLC5A2, SGLT2
Target/Specificity	SLC5A2 (NP_003032.1, 228 a.a. ~ 277 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SLC5A2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

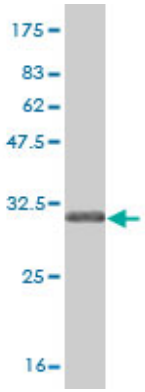
This gene encodes a member of the sodium glucose cotransporter family which are sodium-dependent glucose transport proteins. The encoded protein is the major cotransporter involved in glucose reabsorption in the kidney. Mutations in this gene are associated with renal glucosuria.

References

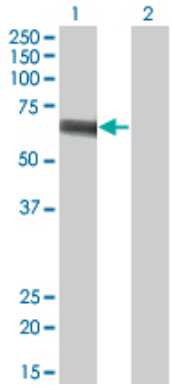
Twenty-one additional cases of familial renal glucosuria: absence of genetic heterogeneity, high prevalence of private mutations and further evidence of volume depletion. Calado J, et al. Nephrol Dial Transplant, 2008

Dec. PMID 18622023.Thioglycosides as inhibitors of hSGLT1 and hSGLT2: potential therapeutic agents for the control of hyperglycemia in diabetes. Castaneda F, et al. Int J Med Sci, 2007 May 5. PMID 17505558.A novel missense mutation in SLC5A2 encoding SGLT2 underlies autosomal-recessive renal glucosuria and aminoaciduria. Magen D, et al. Kidney Int, 2005 Jan. PMID 15610225.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Novel compound heterozygous mutations in SLC5A2 are responsible for autosomal recessive renal glucosuria. Calado J, et al. Hum Genet, 2004 Feb. PMID 14614622.

Images

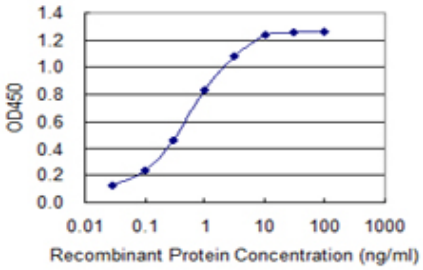


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (31.24 KDa) .



Western Blot analysis of SLC5A2 expression in transfected 293T cell line by SLC5A2 monoclonal antibody (M01), clone 3G8.

Lane 1: SLC5A2 transfected lysate(72.9 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged SLC5A2 is 0.03 ng/ml as a capture antibody.