

**SLC5A2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant SLC5A2.****Catalog # AT3930a****Specification**

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**SLC5A2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P31639</a>
Other Accession	<a href="#">NM_003041</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	72897

**SLC5A2 Antibody (monoclonal) (M01) - 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

**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.

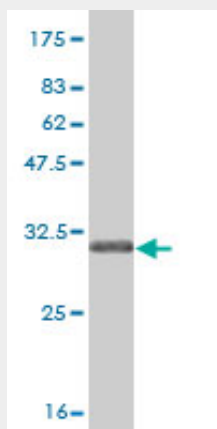
**SLC5A2 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

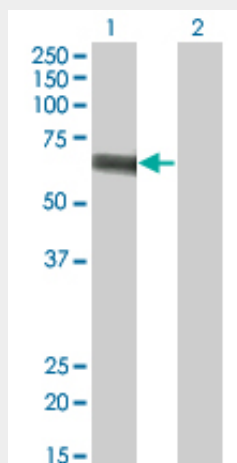
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SLC5A2 Antibody (monoclonal) (M01) - Images



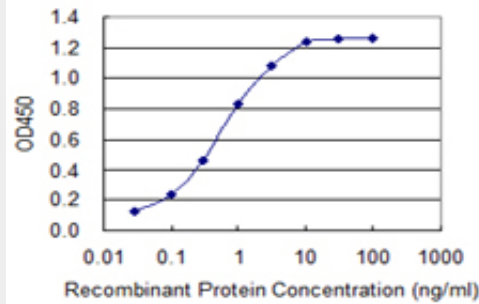
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.24 KDa) .



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.

### **SLC5A2 Antibody (monoclonal) (M01) - 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.

### **SLC5A2 Antibody (monoclonal) (M01) - 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.