

**SLC18A1 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant SLC18A1.****Catalog # AT3903a****Specification**

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**SLC18A1 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P54219</a>
Other Accession	<a href="#">BC006317</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b kappa
Calculated MW	56257

**SLC18A1 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 6570**Other Names**

Chromaffin granule amine transporter, Solute carrier family 18 member 1, Vesicular amine transporter 1, VAT1, SLC18A1, VAT1, VMAT1

**Target/Specificity**

SLC18A1 (AAH06317.1, 1 a.a. ~ 493 a.a) full-length 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**

SLC18A1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

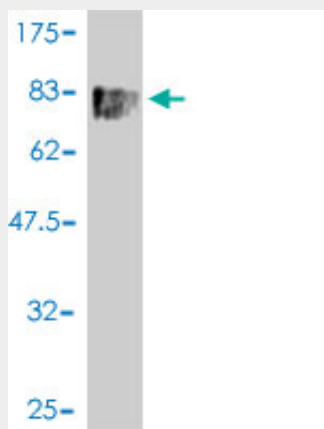
**SLC18A1 Antibody (monoclonal) (M01) - Protocols**

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

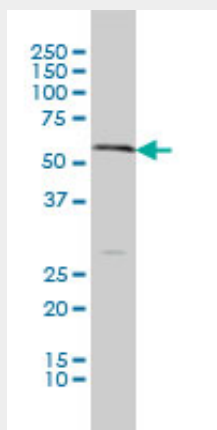
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

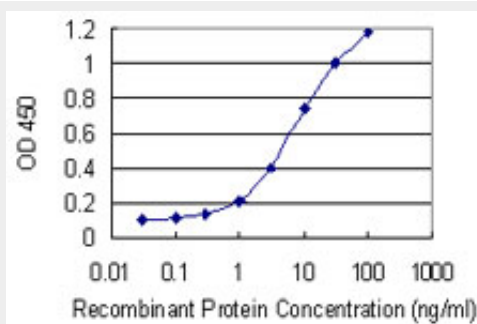
### SLC18A1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (79.97 kDa) .



SLC18A1 monoclonal antibody (M01), clone 3A2-E10 Western Blot analysis of SLC18A1 expression in A-549 ( Cat # AT3903a )



Detection limit for recombinant GST tagged SLC18A1 is 0.1 ng/ml as a capture antibody.

### SLC18A1 Antibody (monoclonal) (M01) - Background

The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine (Peter et al., 1993 [PubMed 7905859]). See also SLC18A2 (MIM 193001).

#### **SLC18A1 Antibody (monoclonal) (M01) - References**

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014. Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064. Novel loci for major depression identified by genome-wide association study of Sequenced Treatment Alternatives to Relieve Depression and meta-analysis of three studies. Shyn SI, et al. Mol Psychiatry, 2009 Dec 29. PMID 20038947. Genome-wide association analysis of high-density lipoprotein cholesterol in the population-based KORA study sheds new light on intergenic regions. Heid IM, et al. Circ Cardiovasc Genet, 2008 Oct. PMID 20031538. Pharmacogenetics of antipsychotic response in the CATIE trial: a candidate gene analysis. Need AC, et al. Eur J Hum Genet, 2009 Jul. PMID 19156168.