

**ALS2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant ALS2.****Catalog # AT1126a****Specification**

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**ALS2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O96Q42</a>
Other Accession	<a href="#">BC029174</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	183634

**ALS2 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 57679**Other Names**

Alsin, Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 6 protein, Amyotrophic lateral sclerosis 2 protein, ALS2, ALS2CR6, KIAA1563

**Target/Specificity**

ALS2 (AAH29174, 221 a.a. ~ 320 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**

ALS2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

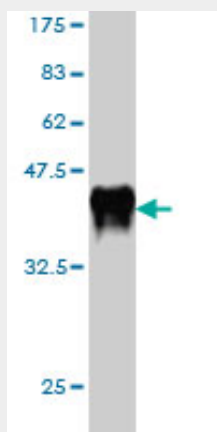
**ALS2 Antibody (monoclonal) (M01) - Protocols**

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

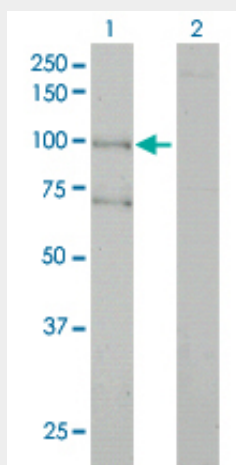
- [Western Blot](#)
- [Blocking Peptides](#)

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

#### ALS2 Antibody (monoclonal) (M01) - Images

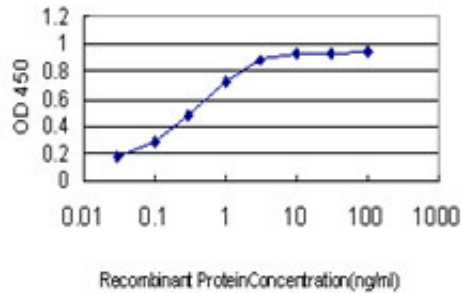


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of ALS2 expression in transfected 293T cell line by ALS2 monoclonal antibody (M01), clone 4F9.

Lane 1: ALS2 transfected lysate (184 KDa).  
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ALS2 is approximately 0.03ng/ml as a capture antibody.

### **ALS2 Antibody (monoclonal) (M01) - Background**

The protein encoded by this gene contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein functions as a guanine nucleotide exchange factor for the small GTPase RAB5. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics. Mutations in this gene result in several forms of juvenile lateral sclerosis and infantile-onset ascending spastic paralysis. Multiple transcript variants encoding different isoforms have been found for this gene.

### **ALS2 Antibody (monoclonal) (M01) - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. A novel ALS2 splice-site mutation in a Cypriot juvenile-onset primary lateral sclerosis family. Mintchev N, et al. Neurology, 2009 Jan 6. PMID 19122027. An interrupted beta-propeller and protein disorder: structural bioinformatics insights into the N-terminus of alsin. Soares DC, et al. J Mol Model, 2009 Feb. PMID 19023603. Maternal uniparental heterodisomy with partial isodisomy of a chromosome 2 carrying a splice acceptor site mutation (IVS9-2A>T) in ALS2 causes infantile-onset ascending spastic paralysis (IAHSP). Herzfeld T, et al. Neurogenetics, 2009 Feb. PMID 18810511. Novel homozygous ALS2 nonsense mutation (p.Gln715X) in sibs with infantile-onset ascending spastic paralysis: the first cases from northwestern Europe. Verschuuren-Bemelmans CC, et al. Eur J Hum Genet, 2008 Nov. PMID 18523452.