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ALS2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ALS2.
Catalog # AT1126a

Specification

ALS2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q96Q42
Other Accession	BC029174
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

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

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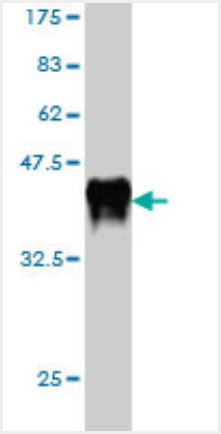
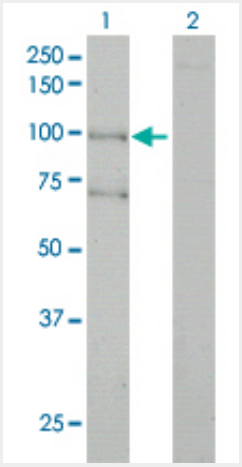
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

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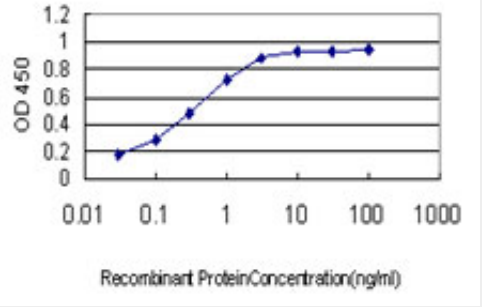

Detection limit for recombinant GST tagged ALS2 is approximately 0.03ng/ml as a capture antibody.

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.