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Goat Anti-Alsin / ALS2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1057a

Specification

Goat Anti-Alsin / ALS2 Antibody - Product Information

Application	**IHC**
Primary Accession	Q96Q42
Other Accession	NP_065970, 57679
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**183634**

Goat Anti-Alsin / ALS2 Antibody - 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

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Alsin / ALS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Alsin / ALS2 Antibody - Protein Information

Name ALS2

Synonyms ALS2CR6, KIAA1563

Function
May act as a GTPase regulator. Controls survival and growth of spinal motoneurons (By similarity).

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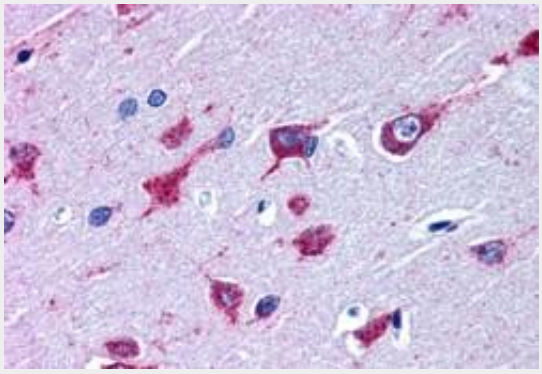
Goat Anti-Alsin / ALS2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Alsin / ALS2 Antibody - Images



AF1057a (3.8 µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-Alsin / ALS2 Antibody - 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.

Goat Anti-Alsin / ALS2 Antibody - 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.