



20150119ML

Anti-Mouse ALS (#4K23)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M304
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of ALS.

Target Background

Synonyms (Target):	Igfals; ALS; Albs; mKIAA4111
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ALS (Acid labile subunit) is an 84-86 kDa glycoprotein member of the leucine rich repeat superfamily of molecules. It is secreted by hepatocytes in response to growth hormone stimulation, and forms a 140-150 kDa ternary complex with IGFBP3 (or IGFBP5) and IGFI. This complex increases the half-life of IGFI and retains it in the circulation for use in multiple tissues. Mature mouse ALS is 580 amino acids (aa) in length (aa 24-603). It contains twentyone 20-23 aa LRRs that participate in proteinprotein interactions. There are two potential isoform variants that show N-terminal extensions. One contains a 66 aa substitution for aa 1 -5, while another possesses an 89 aa substitution again for aa 15. Over aa 28-603, mouse ALS shares 79% and 93% aa identity with human and rat ALS, respectively.

Database References Target

Protein RefSeq:	NP_032366.2
Uniprot ID:	P70389
mRNA RefSeq:	NM_008340.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#4K23)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	recombinant protein of ALS
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects mouse ALS in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

WB 1:500 – 1:1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!