

# ALMS1 (M-300): sc-135074

## BACKGROUND

ALMS1 (Alström syndrome protein 1), or ALSS, is a widely expressed protein that localizes to centrosomes and the basal bodies of cilia. It consists of a putative leucine zipper, a tandem repeat domain and a stretch of 17 glutamine residues followed by 7 alanine residues near the N-terminal. Three ALMS1 isoforms exist due to splicing variation. The first isoform is the full length ALMS1. Isoform 2 lacks amino acids 4121-4167. The third isoform is only 3,858 amino acids long and it contains an alternate sequence for amino acids 3,850-3,858. ALMS1 may play a role in intracellular transport, microtubule organization, and basal body and cilia function. A mutation in the gene encoding ALMS1 results in the dysfunction of basal bodies and/or cilia. This dysfunction is suggested to be the cause of Alström syndrome, a rare autosomal-recessive condition. Symptoms include Insulin resistance, type 2 diabetes and obesity.

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## CHROMOSOMAL LOCATION

Genetic locus: *Alms1* (mouse) mapping to 6 C3.

## SOURCE

ALMS1 (M-300) is a rabbit polyclonal antibody raised against amino acids 1981-2280 mapping within an internal region of ALMS1 of mouse origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

ALMS1 (M-300) is recommended for detection of ALMS1 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ALMS1 siRNA (m): sc-72346, ALMS1 shRNA Plasmid (m): sc-72346-SH and ALMS1 shRNA (m) Lentiviral Particles: sc-72346-V.

Molecular Weight of ALMS1: 461 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.