

ELMSAN1 (S-16): sc-245307

BACKGROUND

ELMSAN1 (ELM2 and SANT domain-containing protein 1), also known as LSR68, MIDEAS or C14orf43, is a 1,045 amino acid nuclear protein that contains one ELM2 domain and a SANT domain. ELMSAN1 is part of a deacetylase complex that contains TdIF1 and HDAC1. The gene encoding ELMSAN1 maps to human chromosome 14q24.2. Chromosome 14 encodes the presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease. The SERPINA1 gene is located on chromosome 14 and when defective leads to the genetic disorder α 1-antitrypsin deficiency. This disorder is characterized by severe lung complications and liver dysfunction. Notably, the immunoglobulin heavy chain locus is found on chromosome 14 and has been identified as a fusion with the chromosome 19 encoded protein Bcl-3 in the (14;19) translocations found in a variety of B cell malignancies.

CHROMOSOMAL LOCATION

Genetic locus: ELMSAN1 (human) mapping to 14q24.3; Elmsan1 (mouse) mapping to 12 D1.

SOURCE

ELMSAN1 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ELMSAN1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-245307 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

ELMSAN1 (S-16) is recommended for detection of ELMSAN1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

ELMSAN1 (S-16) is also recommended for detection of ELMSAN1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ELMSAN1 siRNA (h): sc-92414, ELMSAN1 siRNA (m): sc-141825, ELMSAN1 shRNA Plasmid (h): sc-92414-SH, ELMSAN1 shRNA Plasmid (m): sc-141825-SH, ELMSAN1 shRNA (h) Lentiviral Particles: sc-92414-V and ELMSAN1 shRNA (m) Lentiviral Particles: sc-141825-V.

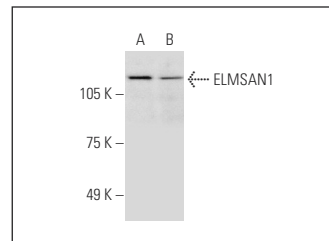
Molecular Weight of ELMSAN1: 115 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ELMSAN1 (S-16): sc-245307. Western blot analysis of ELMSAN1 expression in Jurkat (A) and K-562 (B) whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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Try **ELMSAN1 (B-10): sc-514710**, our highly recommended monoclonal alternative to ELMSAN1 (S-16).