

OASL1 (M-300): sc-98385

BACKGROUND

The 2', 5'- oligoadenylate synthetases (OASs) are interferon-induced proteins that play a putative role in mediating resistance to virus infection, control of cell growth, differentiation and apoptosis. OAS1, which functions as a homotetramer, is characterized by its capacity to catalyze the synthesis of 2', 5'- oligomers of adenosine (2-5As). OAS1 is also important in evaluating the interferon response in RNAi studies and is implicated in diabetes mellitus susceptibility. OASL1 (2',5'-oligoadenylate synthetase-like 1) is an enzyme that, due to the evolutionary loss of its 2-5A synthetase activity, is suspected to have a novel function independent of 2-5A synthesis. OASL2 has both enzymatic activity and a ubiquitin-like domain, acting as a functional intermediate between the active OAS species and the inactive OASL1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Oasl1* (mouse) mapping to 5 F.

SOURCE

OASL1 (M-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of OASL1 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.

STORAGE

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

APPLICATIONS

OASL1 (M-300) is recommended for detection of OASL1 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 *Oasl1* siRNA (m): sc-150147, *Oasl1* shRNA Plasmid (m): sc-150147-SH and *Oasl1* shRNA (m) Lentiviral Particles: sc-150147-V.

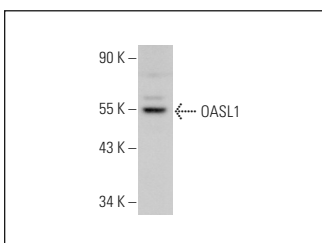
Molecular Weight of OASL1: 59 kDa.

Positive Controls: KNRK nuclear extract: sc-2141.

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.

DATA



OASL1 (M-300): sc-98385. Western blot analysis of OASL1 expression in KNRK nuclear extract.

RESEARCH USE

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

PROTOCOLS

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