

OBSL1 (E-16): sc-241578

BACKGROUND

OBSL1 (obscurin-like 1) is a novel 1,401 amino acid cytoskeletal adaptor protein that is closely related to obscurin and links internal cytoskeletons to the cell membrane. Existing as two alternatively spliced isoforms, OBSL1 belongs to the Unc-89/obscurin family and is widely expressed, with highest levels found in heart and ovary, followed by testis, brain and skeletal muscle. OBSL1 contains one fibronectin type-III domain, 11 Ig-like (immunoglobulin-like) domains, and is encoded by a gene that maps to human chromosome 2q35. Defects in the OBSL1 gene are the cause of an autosomal recessive disorder known as 3M syndrome type 2 (3M2), in which patients exhibit short stature, a short upturned nose with anteverted nares, full lips, triangular shaped face, frontal bossing and distinguished heels.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OBSL1 (human) mapping to 2q35; Obsl1 (mouse) mapping to 1 C4.

SOURCE

OBSL1 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OBSL1 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-241578 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OBSL1 (E-16) is recommended for detection of OBSL1 of mouse, rat and human 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); non cross-reactive with Obscurin.

OBSL1 (E-16) is also recommended for detection of OBSL1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for OBSL1 siRNA (m): sc-150167, OBSL1 shRNA Plasmid (m): sc-150167-SH and OBSL1 shRNA (m) Lentiviral Particles: sc-150167-V.

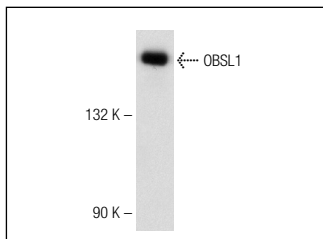
Molecular Weight of OBSL1 isoforms: 153/113 kDa.

Positive Controls: rat skeletal muscle extract: sc-364810 or human skeletal muscle extract: sc-363776.

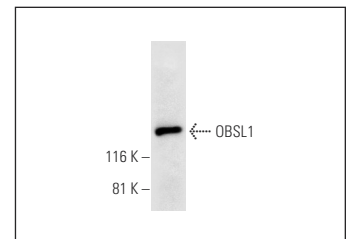
RECOMMENDED SECONDARY REAGENTS

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



OBSL1 (E-16): sc-241578. Western blot analysis of OBSL1 expression in rat skeletal muscle tissue extract.



OBSL1 (E-16): sc-241578. Western blot analysis of OBSL1 expression in human skeletal muscle tissue extract.

RESEARCH USE

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