

OBFC1 (M-300): sc-135363

BACKGROUND

The Oligonucleotide/oligosaccharide-binding (OB) domain is a dense structural motif normally used for nucleic acid recognition. Proteins containing an OB motif are structurally characterized by a small beta-barrel fold formed from several strands connected by modulating loops that recognize either single-stranded or unusually structured nucleic acids. The OB-fold core is extremely variable in length and in functional detail, and members of the OB-fold domain family have a low degree of sequence similarity. However, certain features of ligand binding are conserved among OB-fold complexes. OB-fold proteins are critical for DNA replication, DNA recombination, DNA repair, transcription, translation, cold shock response and telomere maintenance. OBFC1 (oligonucleotide/oligosaccharide-binding fold containing 1) is a 368 amino acid protein that may bind nucleic acids or oligosaccharides. Two isoforms of OBFC1 may exist due to alternative splicing.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Obfc1 (mouse) mapping to 19 D1.

SOURCE

OBFC1 (M-300) is a rabbit polyclonal antibody raised against amino acids 8-307 mapping at the N-terminus of OBFC1 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

OBFC1 (M-300) is recommended for detection of OBFC1 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); non cross-reactive with OBFC2A or OBFC2B.

Suitable for use as control antibody for OBFC1 siRNA (m): sc-150159, OBFC1 shRNA Plasmid (m): sc-150159-SH and OBFC1 shRNA (m) Lentiviral Particles: sc-150159-V.

Molecular Weight of OBFC1: 42 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 or our catalog for detailed protocols and support products.


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 Guaranteed

Try **OBFC1 (E-10): sc-376450**, our highly recommended monoclonal alternative to OBFC1 (M-300).