

ORP-9 (S-15): sc-109744

BACKGROUND

Members of the oxysterol-binding protein (OSBP) family function as intracellular lipid receptors. OSBPs are involved in lipid metabolism and signal transduction, as well as vesicle transport, and can translocate to the periphery of Golgi membranes when they are bound to oxysterols. ORPs (OSBP-related proteins) belong to a subfamily of OSBPs and consists of ORP-1 through ORP-11. The ORPs have a highly conserved OSBP-type sterol-binding region and a Pleckstrin homology domain. They strongly bind to phosphatidic acid and weakly bind to phosphatidylinositol 3-phosphate. ORP-9 is widely expressed, and is produced as two isoforms due to alternative splicing.

CHROMOSOMAL LOCATION

Genetic locus: OSBP9 (human) mapping to 1p32.3; Osbp9 (mouse) mapping to 4 C7.

SOURCE

ORP-9 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ORP-9 of human origin.

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-109744 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ORP-9 (S-15) is recommended for detection of ORP-9 of mouse 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).

ORP-9 (S-15) is also recommended for detection of ORP-9 in additional species, including avian.

Suitable for use as control antibody for ORP-9 siRNA (h): sc-88095, ORP-9 siRNA (m): sc-106336, ORP-9 shRNA Plasmid (h): sc-88095-SH, ORP-9 shRNA Plasmid (m): sc-106336-SH, ORP-9 shRNA (h) Lentiviral Particles: sc-88095-V and ORP-9 shRNA (m) Lentiviral Particles: sc-106336-V.

Molecular Weight (predicted) of ORP-9: 83 kDa.

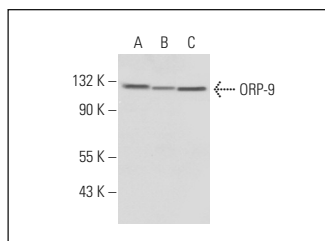
Molecular Weight (observed) of ORP-9: 95 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, 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



ORP-9 (S-15): sc-109744. Western blot analysis of ORP-9 expression in Jurkat (A), HeLa (B) and K-562 (C) whole cell lysates.

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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Try **ORP-9 (A-7): sc-398961**, our highly recommended monoclonal alternative to ORP-9 (S-15).