

ORP-5 (E-12): sc-138497

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 (PH) domain. They strongly bind to phosphatidic acid and weakly bind to phosphatidylinositol 3-phosphate. ORP-5, also designated OBPH1 (oxysterol-binding protein homolog 1) or OSBPL5 (oxysterol binding protein-like 5), is a 879 amino acid protein that belongs to the OSBP family and is ubiquitously expressed. Containing one PH domain, ORP-5 is encoded by a gene that maps to human chromosome 11p15.4 and mouse chromosome 7 F5.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OSBPL5 (human) mapping to 11p15.4; Osbpl5 (mouse) mapping to 7 F5.

SOURCE

ORP-5 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ORP-5 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-138497 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ORP-5 (E-12) is recommended for detection of ORP-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 other ORP family members.

Suitable for use as control antibody for ORP-5 siRNA (h): sc-96769, ORP-5 siRNA (m): sc-151321, ORP-5 shRNA Plasmid (h): sc-96769-SH, ORP-5 shRNA Plasmid (m): sc-151321-SH, ORP-5 shRNA (h) Lentiviral Particles: sc-96769-V and ORP-5 shRNA (m) Lentiviral Particles: sc-151321-V.

Molecular Weight of ORP-5: 99 kDa.

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) 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.

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.