

ORP-3 (D-15): sc-160628

BACKGROUND

ORP-3 (OSBP-related protein 3), also known as OSBPL3 (oxysterol binding protein-like 3) or OSBP3, is an 887 amino acid protein that contains one PH domain and is thought to be involved in actin cytoskeletal control, as well as in cell polarity and cell adhesion. Belonging to the OSBP family, ORP-3 exists as eight alternatively spliced isoforms, designated 1α -1 δ and 2α -2 δ , all of which are expressed in colon, lung, spleen, brain, thyroid, bone marrow and skeletal muscle, but are not present in liver and heart tissue. The gene encoding ORP-3 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

CHROMOSOMAL LOCATION

Genetic locus: OSBPL3 (human) mapping to 7p15.3; Osbpl3 (mouse) mapping to 6 B2.3.

SOURCE

ORP-3 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ORP-3 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-160628 P, (100 μ g 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-3 (D-15) is recommended for detection of ORP-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 other ORP family members.

ORP-3 (D-15) is also recommended for detection of ORP-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ORP-3 siRNA (h): sc-89680, ORP-3 siRNA (m): sc-151320, ORP-3 shRNA Plasmid (h): sc-89680-SH, ORP-3 shRNA Plasmid (m): sc-151320-SH, ORP-3 shRNA (h) Lentiviral Particles: sc-89680-V and ORP-3 shRNA (m) Lentiviral Particles: sc-151320-V.

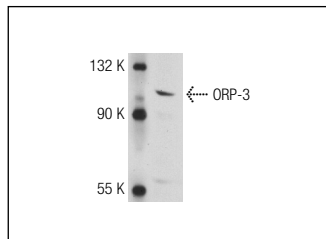
Molecular Weight of ORP-3 precursor: 103 kDa.

Positive Controls: 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-3 (D-15): sc-160628. Western blot analysis of ORP-3 expression in K-562 whole cell lysate.

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.

MONOS
Satisfaction
Guaranteed

Try **ORP-3 (G-5): sc-514097** or **ORP-3 (D-12): sc-398326**, our highly recommended monoclonal alternatives to ORP-3 (D-15).