

OSR1 (V-15): sc-67723

BACKGROUND

OSR (odd-skipped related) proteins belong to the Odd C₂H₂-type zinc-finger protein family and are involved in embryonic development and bone formation. OSR1 (odd-skipped-related 1), also designated ODD, is a 266 amino acid protein that is expressed in the colon, small intestine, prostate, testis and fetal lung. OSR1 is upregulated in several pancreatic and esophageal cancer cell lines and downregulated in some primary gastric cancers. OSR1 contains three C₂H₂-type zinc fingers, a tyrosine phosphorylation site, and several putative PXXP SH3 binding motifs. OSR1 may play a critical role in metanephric kidney formation. Absence of OSR1 in mice causes lack of formation of the meta-nephric mesenchyme and null expression of EYA1, Six2, Pax, Sall1 and GDNF, which are proteins involved in normal kidney development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OSR1 (human) mapping to 2p24.1; Osr1 (mouse) mapping to 12 A1.1.

SOURCE

OSR1 (V-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OSR1 of human origin.

RESEARCH USE

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

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-67723 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OSR1 (V-15) is recommended for detection of OSR1 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).

OSR1 (V-15) is also recommended for detection of OSR1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for OSR1 siRNA (h): sc-62721, OSR1 siRNA (m): sc-62722, OSR1 shRNA Plasmid (h): sc-62721-SH, OSR1 shRNA Plasmid (m): sc-62722-SH, OSR1 shRNA (h) Lentiviral Particles: sc-62721-V and OSR1 shRNA (m) Lentiviral Particles: sc-62722-V.

Molecular Weight of OSR1: 30 kDa.

Positive Controls: SW480 nuclear extract: sc-2155.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **OSR1 (C-8): sc-376545** or **OSR1 (G-5): sc-376529**, our highly recommended monoclonal alternatives to OSR1 (V-15).