

OSR1 (H-38): sc-68392

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 metanephric mesenchyme and null expression of EYA1, Six2, Pax, Sall1 and GDNF, which are proteins involved in normal kidney development.

REFERENCES

- Balakrishnan, M.S., et al. 1977. Glutamine synthetase from *Salmonella typhimurium*: manganese(III), substrate, and inhibitor interaction with the unadenylylated enzyme. Arch. Biochem. Bio-phys. 181: 603-615.
- Hart, M.C., et al. 1996. Comparison of the structure and expression of odd-skipped and two related genes that encode a new family of zinc finger proteins in *Drosophila*. Genetics 144: 171-182.

CHROMOSOMAL LOCATION

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

SOURCE

OSR1 (H-38) is a rabbit polyclonal antibody raised against amino acids 129-166 mapping within an internal region of OSR1 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.

APPLICATIONS

OSR1 (H-38) 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), 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).

OSR1 (H-38) is also recommended for detection of OSR1 in additional species, including equine, canine and bovine.

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.

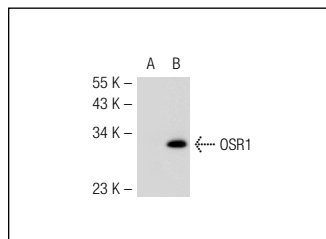
Molecular Weight of OSR1: 30 kDa.

Positive Controls: OSR1 (h): 293T Lysate: sc-114234 or OSR1 (m): 293T Lysate: sc-122277.

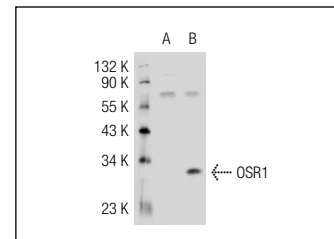
RECOMMENDED SECONDARY REAGENTS

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.

DATA



OSR1 (H-38): sc-68392. Western blot analysis of OSR1 expression in non-transfected: sc-117752 (A) and mouse OSR1 transfected: sc-122277 (B) 293T whole cell lysates.



OSR1 (H-38): sc-68392. Western blot analysis of OSR1 expression in non-transfected: sc-117752 (A) and human OSR1 transfected: sc-114234 (B) 293T whole cell lysates.

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.



Try **OSR1 (C-8): sc-376545** or **OSR1 (G-5): sc-376529**, our highly recommended monoclonal alternatives to OSR1 (H-38).