OSR1 (C-8): sc-376545

**BACKGROUND**

OSR (odd-skipped related) proteins belong to the odd C_{2}H_{2}-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 C_{2}H_{2}-type zinc fingers, a tyrosine phosphorylation site, and several putative PXPF 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

OSR1 (C-8) is a mouse monoclonal antibody raised against amino acids 129-166 mapping within an internal region of OSR1 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376545 X, 200 μg/0.1 ml.

OSR1 (C-8) is available conjugated to agarose (sc-376545 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376545 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376545 PE), fluorescein (sc-376545 FITC), Alexa Fluor® 488 (sc-376545 AF488), Alexa Fluor® 546 (sc-376545 AF546), Alexa Fluor® 594 (sc-376545 AF594) or Alexa Fluor® 647 (sc-376545 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376545 AF680) or Alexa Fluor® 790 (sc-376545 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

OSR1 (C-8) is recommended for detection of OSR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

OSR1 (C-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of OSR1: 30 kDa.

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

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

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

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