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OSR1 (m): 293T Lysate: sc-122277

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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7. James, R.G., Kamei, C.N., Wang, Q., Jiang, R. and Schultheiss, T.M. 2006. Odd-skipped related 1 is required for development of the metanephric kidney and regulates formation and differentiation of kidney precursor cells. Development 133: 2995-3004.
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CHROMOSOMAL LOCATION

Genetic locus: *Osr1* (mouse) mapping to 12 A1.1.

PRODUCT

OSR1 (m): 293T Lysate represents a lysate of mouse OSR1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

OSR1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive OSR1 antibodies. Recommended use: 10-20 µl per lane.

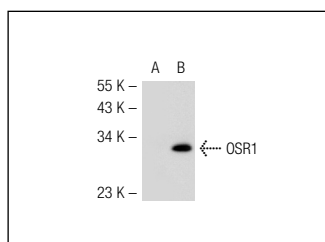
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

OSR1 (H-38): sc-68392 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse OSR1 expression in OSR1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

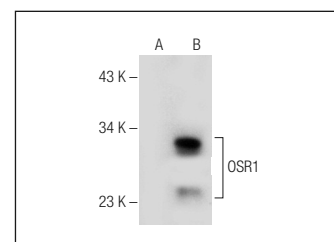
RECOMMENDED SECONDARY REAGENTS

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.

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 (G-5): sc-376529. Western blot analysis of OSR1 expression in non-transfected: sc-117752 (A) and mouse OSR1 transfected: sc-122277 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.