OSR2 (H-8): sc-393516

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. OSR2 (odd-skipped related 2) is a 312 amino acid protein that contains 5 zinc finger domains. It is expressed in the kidneys, skeletal muscle, testis, and mouse embryos and may be involved in transcriptional activity and osteoblast function. The expression of OSR2 is regulated by C/EBP regulatory elements. OSR2 plays a role in regulating palatal development and expression of alkaline phosphatase. Two isoforms, OSR2A and OSR2B, are produced due to alternative splicing. OSR2B is 36 amino acids shorter than OSR2A and contains only 3 zinc finger motifs. Both isoforms localize to the nucleus and are thought to exhibit opposite transcriptional activities. Mutations in the gene encoding OSR2 can alter the gene expression of Pax-9 and TGFβ3.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: OSR2 (human) mapping to 8q22.2; Osr2 (mouse) mapping to 15 B3.1.

SOURCE
OSR2 (H-8) is a mouse monoclonal antibody raised against amino acids 81-120 mapping within an internal region of OSR2 of human origin.

PRODUCT
Each vial contains 200 µg IgG1 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-393516 X, 200 µg/0.1 ml.

OSR2 (H-8) is available conjugated to agarose (sc-393516 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393516 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393516 PE), fluorescein (sc-393516 FITC), Alexa Fluor® 488 (sc-393516 AF488), Alexa Fluor® 546 (sc-393516 AF546), Alexa Fluor® 594 (sc-393516 AF594) or Alexa Fluor® 647 (sc-393516 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® B80 (sc-393516 AF80) or Alexa Fluor® 790 (sc-393516 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Recommended for detection of OSR2 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).

OSR2 (H-8) is also recommended for detection of OSR2 in additional species, including canine and porcine.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG B-HRP: sc-516102 or m-IgG B-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000). Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG B-FITC: sc-516140 or m-IgG B-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

STORE
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.