

OC-2 (H-15): sc-51176

BACKGROUND

The predicted 485 amino acid ONECUT2 (OC-2) protein is a transcriptional activator that functions in activating the transcription of several liver genes, such as HNF3- β . OC-2 is a member of the CUT homeobox family and contains one CUT DNA-binding domain and one homeobox DNA-binding domain. OC-2 shares several regions of sequence homology with OC-1 (HNF6), including a serine/threonine- and proline-rich sequence (STP box). OC-2 localizes to the nucleus and abundant expression of OC-2 is observed in liver and skin tissues, whereas lower expression is demonstrated in testis, brain (occipital cortex) and urinary bladder tissues. The ability of OC-2 to recognize binding sites present in regulatory regions of liver-expressed genes differ from, but overlap with, those of OC-1. Like OC-1, recombinant OC-2 stimulates transcription of the HNF3- β gene. Research also suggests that OC-2 participates in liver differentiation and metabolism.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ONECUT2 (human) mapping to 18q21.31; Onecut2 (mouse) mapping to 18 E1.

SOURCE

OC-2 (H-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OC-2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-51176 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-51176 X, 200 μ g/0.1 ml.

APPLICATIONS

OC-2 (H-15) is recommended for detection of OC-2 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).

OC-2 (H-15) is also recommended for detection of OC-2 in additional species, including porcine.

Suitable for use as control antibody for OC-2 siRNA (h): sc-61254, OC-2 siRNA (m): sc-61255, OC-2 shRNA Plasmid (h): sc-61254-SH, OC-2 shRNA Plasmid (m): sc-61255-SH, OC-2 shRNA (h) Lentiviral Particles: sc-61254-V and OC-2 shRNA (m) Lentiviral Particles: sc-61255-V.

OC-2 (H-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of OC-2: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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.

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.