

Evx-1 (T-15): sc-65095

BACKGROUND

Homeodomain proteins are transcription factors that control gene expression in order to regulate development in all eukaryotes. Hox genes are required for the establishment of regional identities along body axes. The vertebrate Hox genes map closely to even-skipped homolog protein 1 (Evx-1) and Evx-2, homeodomain proteins that are the homologs of the *Drosophila melanogaster* even-skipped gene. Evx-1 maps to mouse chromosome 6, near the Hox-1 gene cluster. The close linkage of the Evx and Hox genes is distinct because Evx expression is partly controlled by mechanisms acting on the Hox genes. Evx-1 is expressed during embryonic development in the hindbrain, genital bud, developing neural tube and distal limb. Its expression is induced by the growth factor FGF-4. Evx-1 and Evx-2 belong to a homeodomain protein family that also controls body plan formation and plays a crucial role in gastrulation, neurogenesis, appendage development and tailbud formation.

CHROMOSOMAL LOCATION

Genetic locus: EVX1 (human) mapping to 7p15.2; Evx1 (mouse) mapping to 6 B3.

SOURCE

Evx-1 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Evx-1 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.

Blocking peptide available for competition studies, sc-65095 P, (100 µg 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-65095 X, 200 µg/0.1 ml.

APPLICATIONS

Evx-1 (T-15) is recommended for detection of Evx-1 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).

Evx-1 (T-15) is also recommended for detection of Evx-1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Evx-1 siRNA (h): sc-62288, Evx-1 siRNA (m): sc-62289, Evx-1 shRNA Plasmid (h): sc-62288-SH, Evx-1 shRNA Plasmid (m): sc-62289-SH, Evx-1 shRNA (h) Lentiviral Particles: sc-62288-V and Evx-1 shRNA (m) Lentiviral Particles: sc-62289-V.

Evx-1 (T-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

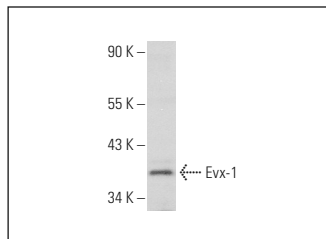
Molecular Weight of Evx-1: 42 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, PC-12 cell lysate: sc-2250 or NIH/3T3 nuclear extract: sc-2138.

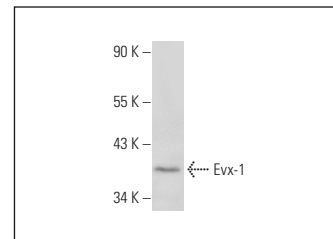
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Evx-1 (T-15): sc-65095. Western blot analysis of Evx-1 expression in NIH/3T3 nuclear extract.



Evx-1 (T-15): sc-65095. Western blot analysis of Evx-1 expression in PC-12 whole cell lysate.

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.


 MONOS
Satisfaction
Guaranteed

Try **Evx-1 (397.3): sc-81962**, our highly recommended monoclonal alternative to Evx-1 (T-15).