

Ovol2 (T-18): sc-85803

BACKGROUND

The Ovo family of zinc-finger transcription factors encode evolutionarily conserved genes including those from *Caenorhabditis elegans*, *Drosophila melanogaster*, mouse and human. Members of the Ovo family include Ovol1 and Ovol2. Ovol1 acts as a transcriptional repressor by interacting with key developmental signaling pathways such as Wnt and TGF β /BMP. Specifically, Ovol1 represses c-Myc and Id2 genes and establishes a balance between proliferation and differentiation of progenitor cells. Deletion of Ovol1 in mice leads to germ cell degeneration and defective sperm production in adult males. Ovol1 has also been shown to repress itself as well as Ovol2, which is thought to regulate neural development and vascular angiogenesis during embryogenesis.

CHROMOSOMAL LOCATION

Genetic locus: OVOL2 (human) mapping to 20q11.23; Ovol2 (mouse) mapping to 2 G1.

SOURCE

Ovol2 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ovol2 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-85803 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-85803 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Ovol2 (T-18) is recommended for detection of Ovol2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Ovol2 (T-18) is also recommended for detection of Ovol2 in additional species, including bovine and porcine.

Suitable for use as control antibody for Ovol2 siRNA (h): sc-76022, Ovol2 siRNA (m): sc-151948, Ovol2 shRNA Plasmid (h): sc-76022-SH, Ovol2 shRNA Plasmid (m): sc-151948-SH, Ovol2 shRNA (h) Lentiviral Particles: sc-76022-V and Ovol2 shRNA (m) Lentiviral Particles: sc-151948-V.

Ovol2 (T-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

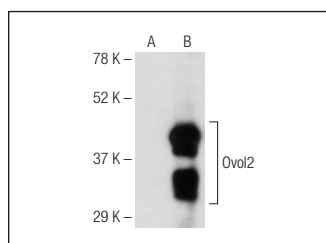
Molecular Weight of Ovol2: 30 kDa.

Positive Controls: Ovol2 (m): 293T Lysate: sc-127275.

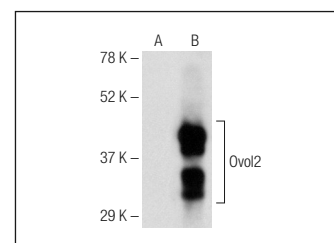
RECOMMENDED SECONDARY REAGENTS

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



Ovol2 (T-18): sc-85803. Western blot analysis of Ovol2 expression in non transfected: sc-117752 (A) and mouse Ovol2 transfected: sc-127275 (B) 293T whole cell lysates.



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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.



Try **Ovol2 (E-9): sc-515001**, our highly recommended monoclonal alternative to Ovol2 (T-18).