

Oct-6 (H-50): sc-28593

BACKGROUND

POU homeodomain proteins are transcriptional regulators that function in various developmental processes (e.g. cell division, differentiation, specification and survival of specific cell types) and participate in the determination of cell fate. The POU transcription factor Oct-6 (also designated SCIP and Tst-1) is expressed by late embryonic Schwann cells of the peripheral nervous system and is also expressed by nonmyelinating Schwann cells in adults. Oct-6 is strongly upregulated in promyel cells because it is required for the timely differentiation of promyel cells into myelinating cells. Oct-6 functions during myelination and is required for the proper downregulation of its own gene when myelination proceeds. c-Myc can act synergistically with the POU domain of Oct-6 to produce myelin disease pathogenesis in the mammalian central nervous system.

REFERENCES

1. Meijer, D., et al. 1990. The octamer binding factor Oct-6: cDNA cloning and expression in early embryonic cells. *Nucleic Acids Res.* 18: 7357-7365.
2. Monuki, E.S., et al. 1990. Expression and activity of the POU transcription factor SCIP. *Science* 249: 1300-1303.

CHROMOSOMAL LOCATION

Genetic locus: POU3F1 (human) mapping to 1p34.3; Pou3f1 (mouse) mapping to 4 D2.2.

SOURCE

Oct-6 (H-50) is a rabbit polyclonal antibody raised against amino acids 111-160 mapping within an internal region of Oct-6 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.

APPLICATIONS

Oct-6 (H-50) is recommended for detection of Oct-6 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).

Suitable for use as control antibody for Oct-6 siRNA (h): sc-38774, Oct-6 siRNA (m): sc-38775, Oct-6 shRNA Plasmid (h): sc-38774-SH, Oct-6 shRNA Plasmid (m): sc-38775-SH, Oct-6 shRNA (h) Lentiviral Particles: sc-38774-V and Oct-6 shRNA (m) Lentiviral Particles: sc-38775-V.

Oct-6 (H-50) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

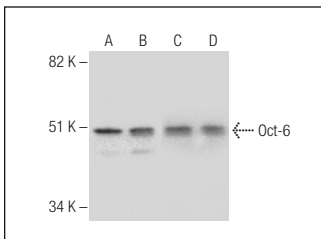
Molecular Weight of Oct-6: 46 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410, HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-2204.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Oct-6 (H-50): sc-28593. Western blot analysis of Oct-6 expression in HL-60 (A), Jurkat (B), A549 (C) and SK-N-SH (D) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Do, T.N., et al. 2010. An intronic polymorphism of IRF4 gene influences gene transcription *in vitro* and shows a risk association with childhood acute lymphoblastic leukemia in males. *Biochim. Biophys. Acta* 1802: 292-300.

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 **Oct-6 (B-7): sc-376143** or **Oct-6 (A-8): sc-376093**, our highly recommended monoclonal alternatives to Oct-6 (H-50).