

# Sall3 (A-9): sc-271818

## BACKGROUND

Sall3 (Sall3, sal-like 3) and SALL4 (Sall4, sal-like 4) are mammalian homologs of the *Drosophila* region-specific homeotic gene spalt (sal), which encodes a zinc finger-containing transcription regulator. *Drosophila* spalt (sal) is an essential genetic component required for the specification of posterior head and anterior tail as opposed to trunk. Sall3 is expressed at 24 weeks of gestation in several regions of the human fetal brain including neurons of the hippocampus formation and of mediodorsal and ventrolateral thalamic nuclei, Purkinje cells of the cerebellum and a subset of neurons in the brainstem. Sall4 expression in early mouse embryos is gradually confined to the head region and the primitive streak, followed by prominent expression in the developing midbrain, branchial arches, limbs and genital papilla.

## REFERENCES

- Nielsen, T.O., et al. 2003. Tissue microarray validation of epidermal growth factor receptor and SALL2 in synovial sarcoma with comparison to tumors of similar histology. *Am. J. Pathol.* 163: 1449-1456.
- Sato, A., et al. 2003. Zinc finger protein SALL2 is not essential for embryonic and kidney development. *Mol. Cell. Biol.* 23: 62-69.
- Wabbels, B.K., et al. 2004. Clinical and molecular genetic findings in isolated sporadic Duane syndrome. *Klin. Monatsbl. Augenheilkd.* 221: 849-853.
- Wabbels, B.K., et al. 2004. No evidence of SALL4-mutations in isolated sporadic duane retraction "syndrome" (DURS). *Am. J. Med. Genet. A* 131: 216-218.

## CHROMOSOMAL LOCATION

Genetic locus: SALL3 (human) mapping to 18q23; Sall3 (mouse) mapping to 18 E3.

## SOURCE

Sall3 (A-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 713-751 within an internal region of Sall3 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> 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-271818 X, 200 µg/0.1 ml.

Sall3 (A-9) is available conjugated to agarose (sc-271818 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271818 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271818 PE), fluorescein (sc-271818 FITC), Alexa Fluor® 488 (sc-271818 AF488), Alexa Fluor® 546 (sc-271818 AF546), Alexa Fluor® 594 (sc-271818 AF594) or Alexa Fluor® 647 (sc-271818 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271818 AF680) or Alexa Fluor® 790 (sc-271818 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

Sall3 (A-9) is recommended for detection of Sall3 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).

Sall3 (A-9) is also recommended for detection of Sall3 in additional species, including canine, porcine and avian.

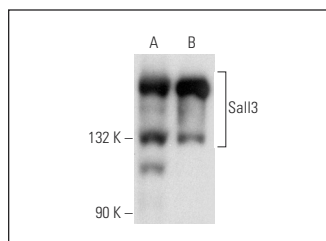
Suitable for use as control antibody for Sall3 siRNA (h): sc-45624, Sall3 siRNA (m): sc-45625, Sall3 shRNA Plasmid (h): sc-45624-SH, Sall3 shRNA Plasmid (m): sc-45625-SH, Sall3 shRNA (h) Lentiviral Particles: sc-45624-V and Sall3 shRNA (m) Lentiviral Particles: sc-45625-V.

Sall3 (A-9) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Sall3: 163 kDa.

Positive Controls: A-10 nuclear extract: sc-24959 or Hep G2 nuclear extract: sc-364819.

## DATA



Sall3 (A-9): sc-271818. Western blot analysis of Sall3 expression in A-10 (A) and Hep G2 (B) nuclear extracts.

## 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](http://www.scbt.com) for detailed protocols and support products.

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