

# Sall2 (PL-A12): sc-135619

## BACKGROUND

Sall1 (SALL1, sal-like 1, TBS, HSAL1) and Sall2 (SALL2, sal-like 2, HSAL2, p150<sup>Sall2</sup>) 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. Mammalian Sall1 may mediate higher order chromatin structure and may be a component of a distinct heterochromatin-dependent silencing process. Sall1 is present in kidney, brain and liver. Sall2 is a p53-independent regulator of p21 and BAX, and can function in some cell types as a regulator of cell growth and survival. Human Sall2 is present in brain, heart, kidney and pancreas. Sall1 and Sall2 are expressed in different areas of the fetal brain that may represent distinct sets of neurons.

## REFERENCES

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- 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. Monbl. Augenheilkd.* 221: 849-853.
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- Borozdin, W., et al. 2004. Sall4 deletions are a common cause of Okihiro and acro-renal-ocular syndromes and confirm haploinsufficiency as the pathogenic mechanism. *J. Med. Genet.* 41: e113.
- Kohlhase, J., et al. 2004. Mutations in Sall4 in malformed father and daughter postulated previously due to reflect mutagenesis by thalidomide. *Birth Defects Res. A Clin. Mol. Teratol.* 70: 550-551.
- Li, D., et al. 2004. p150<sup>Sall2</sup> is a p53-independent regulator of p21<sup>WAF1/CIP</sup>. *Mol. Cell. Biol.* 24: 3885-3893.
- Parrish, M., et al. 2004. Loss of the Sall3 gene leads to palate deficiency, abnormalities in cranial nerves, and perinatal lethality. *Mol. Cell. Biol.* 24: 7102-7112.

## CHROMOSOMAL LOCATION

Genetic locus: SALL2 (human) mapping to 14q11.2; Sall2 (mouse) mapping to 14 C2.

## SOURCE

Sall2 (PL-A12) is a mouse monoclonal antibody raised against recombinant Sall2 protein of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Sall2 (PL-A12) is recommended for detection of Sall2 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

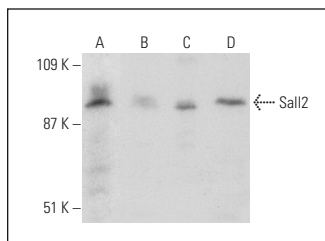
Suitable for use as control antibody for Sall2 siRNA (h): sc-44085, Sall2 siRNA (m): sc-153198, Sall2 shRNA Plasmid (h): sc-44085-SH, Sall2 shRNA Plasmid (m): sc-153198-SH, Sall2 shRNA (h) Lentiviral Particles: sc-44085-V and Sall2 shRNA (m) Lentiviral Particles: sc-153198-V.

Positive Controls: EOC 20 whole cell lysate: sc-364187, C6 whole cell lysate: sc-364373 or NIH/3T3 nuclear extract: sc-2138.

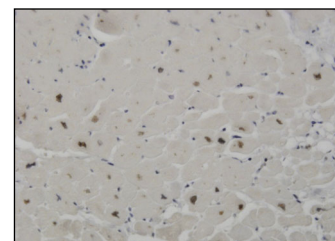
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



Sall2 (PL-A12): sc-135619. Western blot analysis of Sall2 expression in human brain (A), EOC 20 (B) and C6 (C) whole cell lysates and NIH/3T3 nuclear extract (D).



Sall2 (PL-A12): sc-135619. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human heart tissue showing nuclear localization.

## 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.