



Rabbit Anti-SALL1 antibody

SL12203R

Product Name:	SALL1
Chinese Name:	锌指转录蛋白Sall1抗体
Alias:	HSal1; Sal like protein 1; Sal-1; Sal-like protein 1; Sal1; SALL1; SALL1_HUMAN; Spalt like transcription factor 1; Spalt-like transcription factor 1; TBS; Townes Brocks syndrome; Zinc finger protein 794; Zinc finger protein SALL1; Zinc finger protein Spalt-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	140kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SALL1:451-550/1324
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Sall1 and Sall2 are mammalian homologs of the Drosophila region-specific home-otic 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 or pancreas. Sall1 and Sall2 are expressed in different areas of the fetal brain that may represent distinct sets of neurons.

Function:

Transcriptional repressor involved in organogenesis.

Subunit:

Interacts with HDAC1, HDAC2, RBBP4, RBPP7, MTA1 and MTA2. Interacts with FAM58A. Probably associates with NuRD histone deacetylase complex (HDAC).

Subcellular Location:

Nucleus.

Tissue Specificity:

Highest levels in kidney. Lower levels in adult brain (enriched in corpus callosum, lower expression in substantia nigra) and liver.

DISEASE:

Defects in SALL1 are the cause of Townes-Brocks syndrome (TBS) [MIM:107480]. TBS is a rare, autosomal dominant malformation syndrome with a combination of imperforate anus, triphalangeal and supernumerary thumbs, malformed ears and sensorineural hearing loss.

Defects in SALL1 may cause a phenotype overlapping with TBS, similar to bronchio-oto-renal syndrome (BOR) [MIM:113650]. BOR is an autosomal dominant disorder, manifested by various combinations of preauricular pits, branchial fistulae or cysts, lacrimal duct stenosis, hearing loss, structural defects of the outer, middle, or inner ear, and renal dysplasia. Associated defects include asthenic habitus, long narrow facies, constricted palate, deep overbite, and myopia. Hearing loss may be due to Mondini type cochlear defect and stapes fixation.

Similarity:

Belongs to the sal C2H2-type zinc-finger protein family.
Contains 9 C2H2-type zinc fingers.

SWISS:

Q9NSC2

Gene ID:

6299

Database links:

[Entrez Gene: 395446](#)Chicken

[Entrez Gene: 6299](#)Human

[Entrez Gene: 58198](#)Mouse

[Omim: 602218](#)Human

[SwissProt: Q9NSC2](#)Human

[SwissProt: Q9ER74](#)Mouse

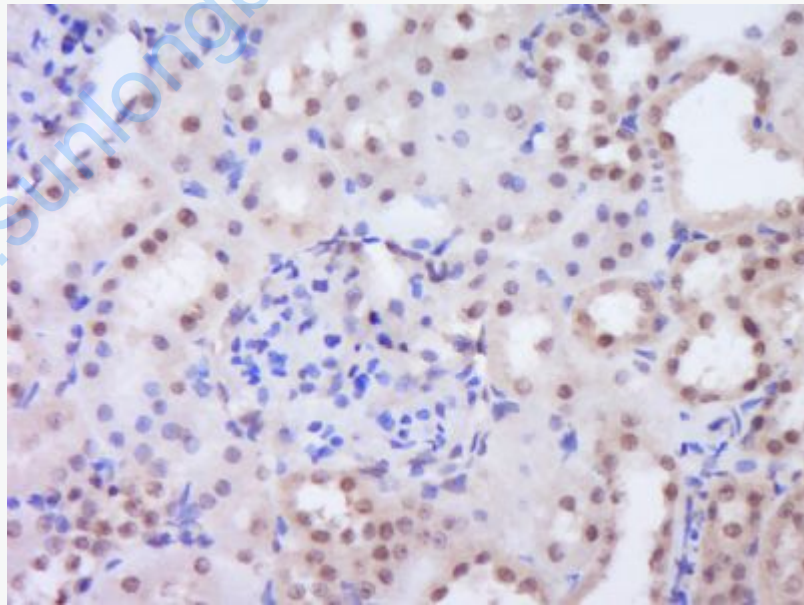
[Unigene: 135787](#)Human

[Unigene: 214361](#)Mouse

Important Note:

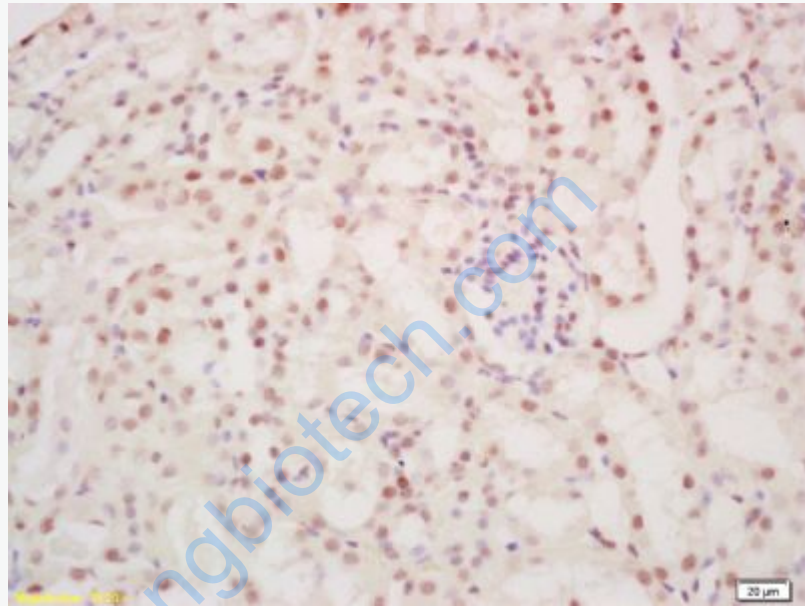
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Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C

for 30min; Antibody incubation with (SALL1) Polyclonal Antibody, Unconjugated (SL12203R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-SALL1 Polyclonal Antibody, Unconjugated(SL12203R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining