

Basic Information

Product Name	Anti-SOX18 Antibody		
Gene Name	SOX18		
Source	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat, monkey		
Tested Application	WB, ICC/IF, FCM, ELISA		
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.		
Immunogen	E.coli-derived human SOX18 recombinant protein (Position: E63-E362).		
Concentration	500 ug/ml		
Purification	Immunogen affinity purified.		
Observed MW	41 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400	
	Flow Cytometry (Fixed):	1:50-200	
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000	

Storage

12 months from date of receipt, -20°C as supplied.

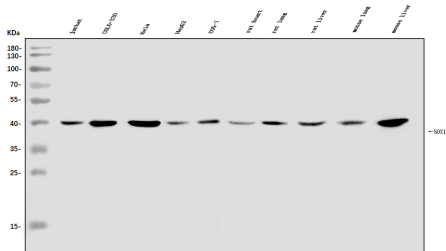
Background Information

Transcription factor SOX-18 is a protein that in humans is encoded by the SOX18 gene. This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. This protein plays a role in hair, blood vessel, and lymphatic vessel development. Mutations in this gene have been associated with recessive and dominant forms of hypotrichosis-lymphedema-telangiectasia.

Reference

Anti-SOX18 Antibody被引用在1文献中。

Selected Validation Data

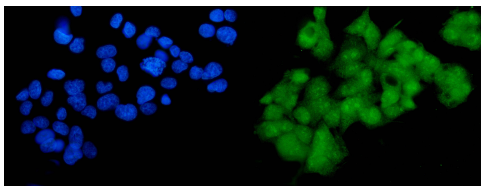


Western blot analysis of SOX18 using anti-SOX18 antibody (A04004-2).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

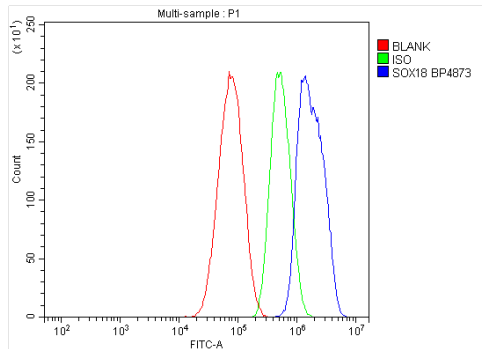
- Lane 1: human Jurkat whole cell lysates,
- Lane 2: human COLO-320 whole cell lysates,
- Lane 3: human HELA whole cell lysates,
- Lane 4: human HEPG2 whole cell lysates,
- Lane 5: Monkey COS-7 whole cell lysates,
- Lane 6: rat heart tissue lysates,
- Lane 7: rat lung tissue lysates,
- Lane 8: rat liver tissue lysates,
- Lane 9: mouse lung tissue lysates,
- Lane 10: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SOX18 antigen affinity purified polyclonal antibody (A04004-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SOX18 at approximately 41 kDa. The expected band size for SOX18 is at 41 kDa.



IF analysis of SOX18 using anti-SOX18 antibody (A04004-2).

SOX18 was detected in an immunocytochemical section of HepG2 cells. The section was incubated with rabbit anti-SOX18 Antibody (A04004-2) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of HepG2 cells using anti-SOX18 antibody (A04004-2).

Overlay histogram showing HepG2 cells stained with A04004-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SOX18 Antibody (A04004-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.