

Product Name: KD-Validated SRY-Box Transcription Factor 10 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb01725

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 49.9kDa

Antigen Information

Gene Name	SOX10 SOX10; SRY-Box Transcription Factor 10; SOX-10; WS2E; DOM; WS4; Dominant Megacolon,
Alternative Names	Mouse, Human Homolog Of; SRY (Sex Determining Region Y)-Box 10; Transcription Factor SOX-10; SRY-Box 10; SRY-Related HMG-Box Gene 10; PCWH; WS4C
Gene ID	6663.0
SwissProt ID	P56693
Immunogen	A synthesized peptide derived from human SOX10

Background

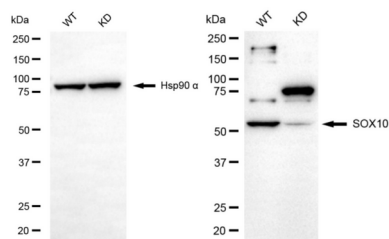
This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of

embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease. [provided by RefSeq, Jul 2008]

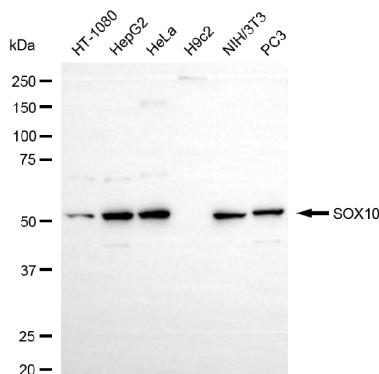
Research Area

Neuroscience, Epigenetics and Nuclear Signaling, Stem Cells, Developmental Biology

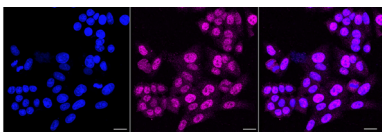
Image Data



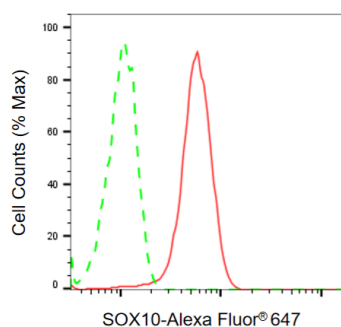
Western blotting analysis using SOX10 antibody (KVA01725). SOX10 expression in wild type (WT) and SOX10 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SOX10 antibody (KVA01725, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using SOX10 antibody (KVA01725). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SOX10 antibody (KVA01725, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with SOX10 antibody (KVA01725, 1:1,000). Nuclei were stained blue with DAPI; SOX10 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of SOX10 expression in HepG2 cells using SOX10 antibody (KVA01725, 1:2,000). Green, isotype control; red, SOX10.