

Product Name: KO-Validated SATB Homeobox 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00089

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,IHC-P
Reactivity	Human
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 82.6kDa

Antigen Information

Gene Name	SATB2 SATB2; SATB Homeobox 2; KIAA1034; Special AT-Rich Sequence-Binding Protein 2; DNA-
Alternative Names	Binding Protein SATB2; SATB Family Member 2; FLJ21474; SATB2 Fusion; C2DELq32q33; DEL2Q32Q33; GLSS
Gene ID	23314.0
SwissProt ID	Q9UPW6
Immunogen	A synthesized peptide derived from human SATB2

Background

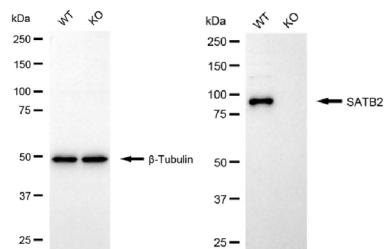
This gene encodes a DNA binding protein that specifically binds nuclear matrix attachment regions. The encoded protein is

involved in transcription regulation and chromatin remodeling. Defects in this gene are associated with isolated cleft palate and cognitive disability. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Feb 2010]

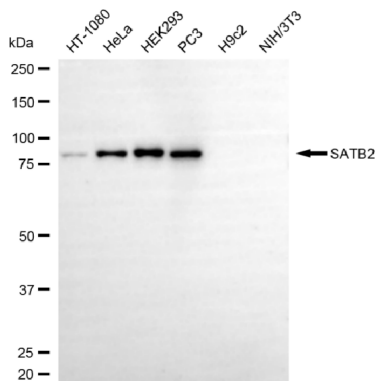
Research Area

Neuroscience, Epigenetics and Nuclear Signaling

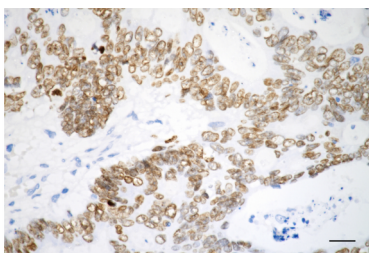
Image Data



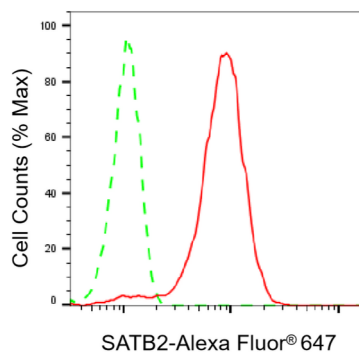
Western blotting analysis using SATB2 antibody (KVA000089). SATB2 expression in wild-type (WT) and SATB2 knockout (KO) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with SATB2 antibody (KVA000089, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using SATB2 antibody (KVA000089). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SATB2 antibody (KVA000089, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using SATB2 antibody (KVA000089, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Flow cytometric analysis of SATB2 expression in HeLa cells using SATB2 antibody (KVA000089, 1:2,000). Green, isotype control; red, SATB2.