

# SATB2 Polyclonal antibody

Catalog Number: 19557-1-AP

## Basic Information

<b>Catalog Number:</b> 19557-1-AP	<b>GenBank Accession Number:</b> NM_015265	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 250 µg/ml	<b>GeneID (NCBI):</b> 23314	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:250-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UPW6	
<b>Isotype:</b> IgG	<b>Full Name:</b> SATB homeobox 2	
	<b>Calculated MW:</b> 83 kDa	
	<b>Observed MW:</b> ~100 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HepG2 cells,

IHC : mouse colon tissue,

## Background Information

SATB2, also named as KIAA1034, belongs to the CUT homeobox family. SATB2 binds to DNA at nuclear matrix- or scaffold-associated regions. SATB2 recognizes the sugar-phosphate structure of double-stranded DNA. SATB2 is a transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. SATB2 acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. It is required for the initiation of the upper-layer neurons (UL1) specific genetic program and for the inactivation of deep-layer neurons (DL) and UL2 specific genes, probably by modulating BCL11B expression. It is a repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. SATB2 may play an important role in palate formation. SATB2 acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

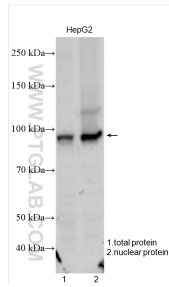
T: 4006900926

E: Proteintech-CN@ptglab.com

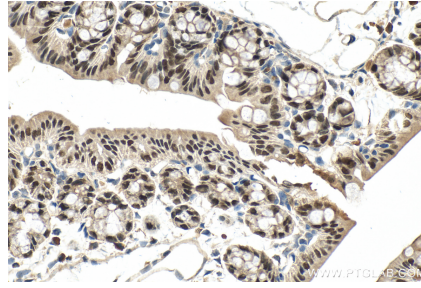
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## Selected Validation Data



The lysate of total HeLa cells and nuclear extracted from HeLa cells were subjected to SDS PAGE followed by western blot with 19557-1-AP (SATB2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 19557-1-AP (SATB2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).