

## **SATB2 Antibody**

Rabbit mAb Catalog # AP92062

## **Specification**

## **SATB2 Antibody - Product Information**

Application WB, IHC
Primary Accession Q9UPW6
Clonality Monoclonal

**Other Names** 

GLSS; SATB family member 2; SATB homeobox 2; SATB2; Special AT rich sequence binding protein

2;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 82555 Da

# **SATB2 Antibody - Additional Information**

Dilution WB~~1:1000

IHC~~1:100~500

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

SATB2

Description Binds to DNA, at nuclear matrix- or

scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin

remodeling enzymes and also by recruiting

corepressors (HDACs) or coactivators (HATs) directly to promoters and

enhancers.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

# **SATB2 Antibody - Protein Information**

Name SATB2

Synonyms KIAA1034



#### **Function**

Binds to DNA, at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double- stranded DNA. Transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. 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. Repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. May play an important role in palate formation. Acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation.

#### **Cellular Location**

Nucleus matrix {ECO:0000255|PROSITE- ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00374, ECO:0000269|PubMed:14701874}

### **Tissue Location**

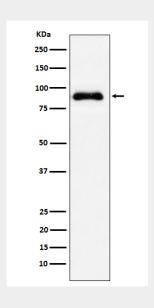
High expression in adult brain, moderate expression in fetal brain, and weak expression in adult liver, kidney, and spinal cord and in select brain regions, including amygdala, corpus callosum, caudate nucleus, and hippocampus.

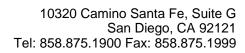
## **SATB2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### SATB2 Antibody - Images







Western blot analysis of SATB2 expression in HT-1080 cell lysate.