

For Research Use Only

# SATB2 Recombinant antibody, PBS Only

Catalog Number: 85922-3-PBS



## Basic Information

**Catalog Number:**

85922-3-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_015265

**GeneID (NCBI):**

23314

**UNIPROT ID:**

Q9UPW6

**Full Name:**

SATB homeobox 2

**Calculated MW:**

83 kDa

**Observed MW:**

~100 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

250096D11

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human

## 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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

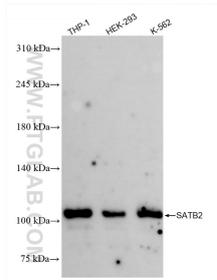
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85922-3-RR (SATB2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85922-3-PBS in a different storage buffer formulation.