

## SATB2 Antibody

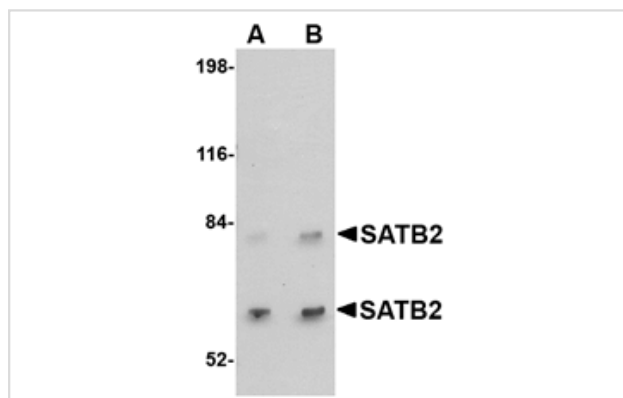
Catalog No: #24695

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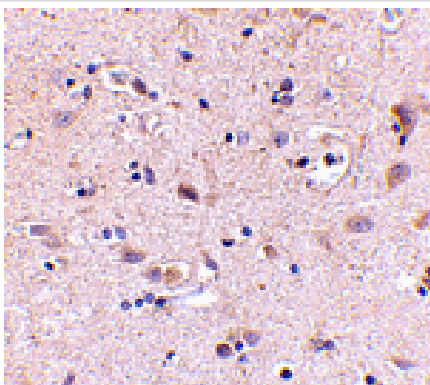
## Description

Product Name	SATB2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Specificity	At least two isoforms of SATB2 are known to exist. This SATB2 antibody will not cross-react with SATB1.
Immunogen Type	Peptide
Immunogen Description	Raised against a 14 amino acid peptide near the carboxy terminus of the human SATB2.
Target Name	SATB2
Other Names	DNA-binding protein SATB2, Special AT-rich sequence-binding protein 2
Accession No.	Q9UPW6
Uniprot	Q9UPW6
GeneID	23314;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Images



Western blot analysis of SATB2 in A20 cell lysate with SATB2 antibody at (A) 2 and (B) 4 ug/mL.



Immunohistochemistry of SATB2 in human brain with SATB2 antibody at 5 ug/mL.

## Background

Human special AT-rich sequence-binding protein-2 (SATB2) is a nuclear matrix/scaffold-associated region DNA-binding protein. Like its homolog SATB1, SATB2 selectively binds double-stranded, special AT-rich DNA sequences, but is expressed primarily in a subset of postmitotic, differentiating neurons in the neocortex. Mice deficient in SATB exhibit craniofacial abnormalities and defects in osteoblast differentiation and function. SATB2 also interacts with and enhances the activity of Runx2 and ATF4, two transcription factors that regulate osteoblast differentiation, indicating that SATB2 acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation. Recent experiments have shown that SATB2 interacts with histone deacetylase 1 and metastasis-associated protein 2, two proteins that are involved in chromatin remodeling, suggesting that SATB2 may also be involved in mediating epigenetic influences during cortical development.

Note: This product is for in vitro research use only