

## Product datasheet for **TA306587**

### **SATB2 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB: 2 - 4 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	SATB2 antibody was raised against a 14 amino acid peptide near the carboxy terminus of the human SATB2.
<b>Formulation:</b>	PBS containing 0.02% sodium azide.
<b>Concentration:</b>	1ug/ul
<b>Purification:</b>	Affinity chromatography purified via peptide column
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	SATB homeobox 2
<b>Database Link:</b>	<a href="#">NP_056080</a> <a href="#">Entrez Gene 212712 Mouse</a> <a href="#">Entrez Gene 501145 Rat</a> <a href="#">Entrez Gene 23314 Human</a> <a href="#">Q9UPW6</a>



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**Background:**

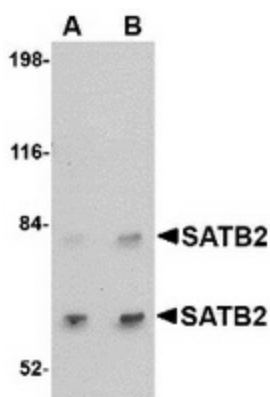
Human special AT-rich sequence-binding protein-2 (SATB2) is a nuclear matrix/scaffold-associated region DNA-binding protein. Like its homolog SATB1, SATB2 selectively binds double-stranded, special AT-rich DNA sequences, but is expressed primarily in a subset of postmitotic, differentiating neurons in 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. At least two isoforms of SATB2 are known to exist. This SATB2 antibody will not cross-react with SATB1.

**Synonyms:**

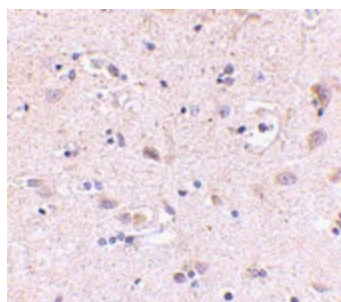
GLSS

**Protein Families:**

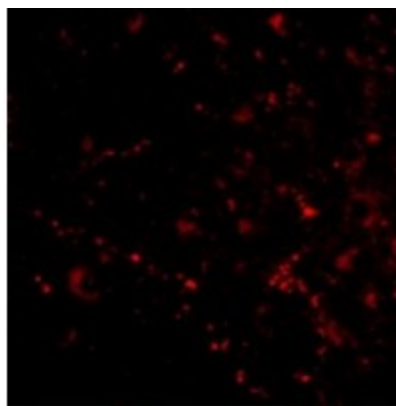
Transcription Factors

**Product 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.



Immunofluorescence of SATB2 in Human Brain cells with SATB2 antibody at 50 ug/mL.