

Datasheet for ABIN500674
anti-SATB2 antibody (N-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	SATB2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SATB2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	SATB2 antibody was raised against a 16 amino acid peptide near the amino terminus of the human SATB2.
Isotype:	IgG
Specificity:	This antibody detects SATB2 at N-term. It will not cross-react with SATB1.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	SATB2
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Target Details

Alternative Name: SATB2 ([SATB2 Products](#))

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. Synonyms: DNA-binding protein SATB2, KIAA1034, Special AT-rich sequence-binding protein 2

Gene ID: 23314

UniProt: [Q9UPW6](#)

Application Details

Application Notes: ELISA. Western blot: 2 - 4 µg/mL. Immunohistochemistry on paraffin sections.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide

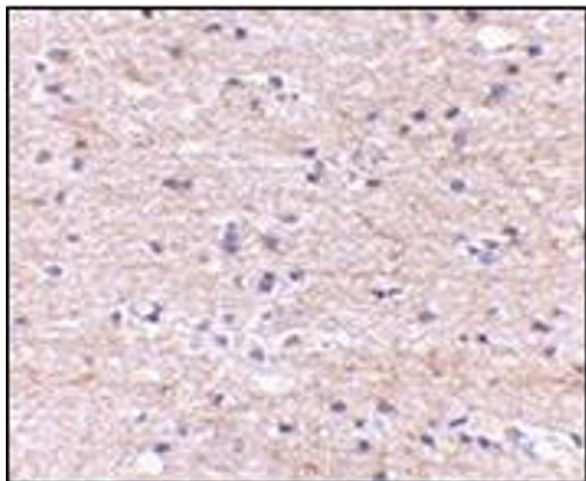
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

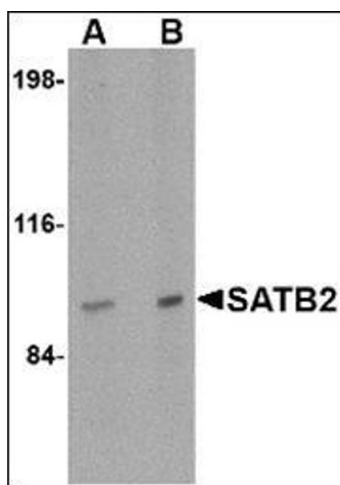
Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of SATB2 in human brain with this product at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of SATB2 in mouse brain tissue lysate with this product at (A) 2 and (B) 4 µg/ml.