



Datasheet for ABIN500670
anti-SATB1 antibody (C-Term)



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2 Images

Overview

Quantity:	0.1 mg
Target:	SATB1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SATB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	SATB1 antibody was raised against a 15 amino acid peptide near the carboxy terminus of the human SATB1.
Isotype:	IgG
Specificity:	This antibody detects SATB1 at C-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	SATB1
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Target Details

Alternative Name: SATB1 ([SATB1 Products](#))

Background: Human special AT-rich sequence-binding protein-1 (SATB1) is a nuclear matrix/scaffold-associated region DNA-binding protein, predominantly expressed in the thymus and pre-B cells. Like its homolog SATB2, SATB1 selectively binds double-stranded, special AT-rich DNA sequences in which one strand exclusively consists of well-mixed A, T, and C nucleotides. SATB1 contains a dimerization domain that shares similarity with the PDZ motif, identified as an indispensable element for high-affinity binding of SATB1 to DNA. SATB1 constitutes a functional nuclear architecture that has a 'cage-like' protein distribution surrounding heterochromatin and regulates gene expression through chromatin remodeling/HDAC (histone deacetylase complex) and transcription factors recruitment. SATB1 functions as a 'genome organizer' essential for proper T-cell development. Recent studies show that SATB1 is necessary for breast cancer cells to become metastatic, and when ectopically expressed in non-metastatic cells, can induce invasive activity in vivo. At least two isoforms of SATB1 are known to exist. Synonyms: DNA-binding protein SATB1, Special AT-rich sequence-binding protein 1

Gene ID: 6304

UniProt: [Q01826](#)

Pathways: [Caspase Cascade in Apoptosis](#), [Activated T Cell Proliferation](#)

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.

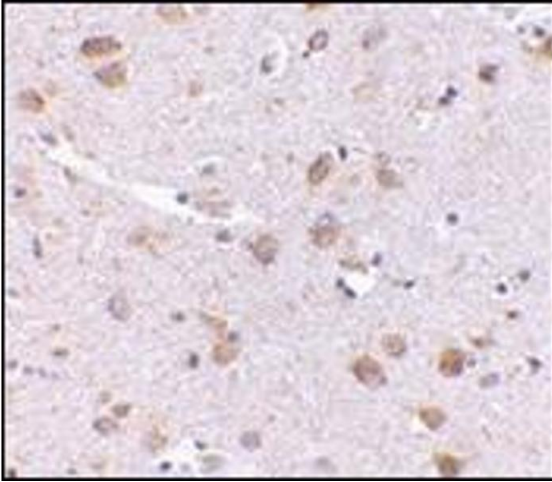
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Handling

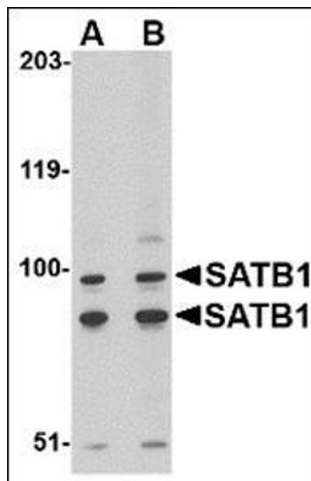
Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of SATB1 in human brain with this product at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of SATB1 in A20 cell lysate with this product at (A) 2 and (B) 4 µg/ml.