

**SATB1 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11378****Specification**

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**SATB1 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">Q01826</a>
Other Accession	<a href="#">NM_002971</a> , <a href="#">NP_002962</a>
Reactivity	Human, Mouse, Rat, Rabbit, Horse
Predicted	Human, Mouse, Rat, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86kDa KDa

**SATB1 antibody - C-terminal region - Additional Information****Gene ID** 6304**Other Names**

DNA-binding protein SATB1, Special AT-rich sequence-binding protein 1, SATB1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-SATB1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

SATB1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**SATB1 antibody - C-terminal region - Protein Information****Name** SATB1 ([HGNC:10541](#))**Function**

Crucial silencing factor contributing to the initiation of X inactivation mediated by Xist RNA that occurs during embryogenesis and in lymphoma (By similarity). Binds to DNA at special AT-rich sequences, the consensus SATB1-binding sequence (CSBS), at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcriptional repressor controlling nuclear and viral gene expression in a phosphorylated and acetylated status-dependent manner, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes (e.g. PML at the MHC-I locus) and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. Modulates genes that are essential in the maturation of the immune T-cell CD8SP from thymocytes. Required

for the switching of fetal globin species, and beta- and gamma-globin genes regulation during erythroid differentiation. Plays a role in chromatin organization and nuclear architecture during apoptosis. Interacts with the unique region (UR) of cytomegalovirus (CMV). Alu-like motifs and SATB1-binding sites provide a unique chromatin context which seems preferentially targeted by the HIV-1 integration machinery. Moreover, HIV-1 Tat may overcome SATB1- mediated repression of IL2 and IL2RA (interleukin) in T-cells by binding to the same domain than HDAC1. Delineates specific epigenetic modifications at target gene loci, directly up-regulating metastasis- associated genes while down-regulating tumor-suppressor genes. Reprograms chromatin organization and the transcription profiles of breast tumors to promote growth and metastasis. Promotes neuronal differentiation of neural stem/progenitor cells in the adult subventricular zone, possibly by positively regulating the expression of NEUROD1 (By similarity).

#### Cellular Location

Nucleus matrix. Nucleus, PML body. Note=Organized into a cage-like network anchoring loops of heterochromatin and tethering specialized DNA sequences (PubMed:12692553). When sumoylated, localized in promyelocytic leukemia nuclear bodies (PML NBs) (PubMed:18408014)

#### Tissue Location

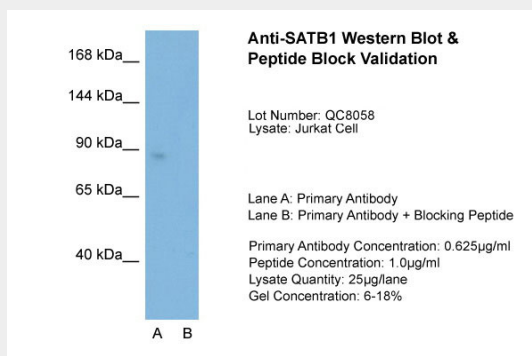
Expressed predominantly in thymus.

### SATB1 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SATB1 antibody - C-terminal region - Images



Host: Rabbit

Target Name:SATB1

Sample Tissue:Jurkat

Lane A: Primary Antibody

Lane B: Primary Antibody + Blocking Peptide

Primary Antibody

Concentration:0.625µg/ml

Peptide Concentration: 1.0µg/ml

Lysate Quantity: 25ug/lane Gel

Concentration: 6%-18% SATB1 is supported by BioGPS gene expression data to be expressed in Jurkat

#### **SATB1 antibody - C-terminal region - References**

Pavan., et al., (2006) Mol. Cell 22 (2), 231-243  
Reconstitution and Storage: For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.