

# SATB1 Recombinant Rabbit mAb

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Catalog # AP94379

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant
<b>Physical State</b>	Liquid
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus matrix. Nucleus, PML body. Note=Organized into a cage-like network anchoring loops of heterochromatin and tethering specialized DNA sequences. When sumoylated, localized in promyelocytic leukemia nuclear bodies (PML NBs).
<b>SIMILARITY</b>	Belongs to the CUT homeobox family.Contains 2 CUT DNA-binding domains.Contains 1 homeobox DNA-binding domain.
<b>SUBUNIT</b>	Interacts (via DNA-binding domains) with CUX1; leading to inhibit the attachment to DNA (By similarity). Homodimer. Part of the nuclear protein complex gamma-globin promoter and enhancer binding factor (gamma-PE) composed at least by SATB1 and HOXB2. Interaction with CtBP1 when not acetylated stabilizes attachment to DNA and promotes transcription repression. Interacts with PCAF. Interacts with sumoylated PML, HDAC1 and HIV-1 Tat via the PDZ-like dimerization domain. Interacts also with DYNLT3 and POLR2J2. Binds to EP300.
<b>Post-translational modifications</b>	Sumoylated. Sumoylation promotes cleavage by caspases.Phosphorylated by PKC. Acetylated by PCAF. Phosphorylated form interacts with HDAC1, but unphosphorylated form interacts with PCAF. DNA binding properties are activated by phosphorylation and inactivated by acetylation. In opposition, gene expression is down-regulated by phosphorylation but up-regulated by acetylation.Cleaved at Asp-254 by caspase-3 and caspase-6 during T-cell apoptosis in thymus and during B-cell stimulation. The cleaved forms can not dimerize and lose transcription regulation function because of impaired DNA and chromatin association.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	This gene encodes a matrix protein which binds nuclear matrix and scaffold-associating DNAs through a unique nuclear architecture. The protein recruits chromatin-remodeling factors in order to regulate chromatin structure and gene expression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2010]

## Additional Information

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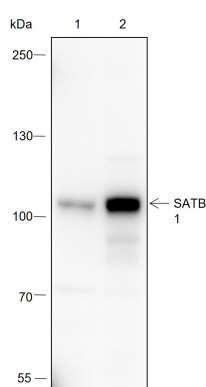
<b>Target/Specificity</b>	Expressed predominantly in thymus.
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<b>Dilution</b>	WB=1:500-1:2000,IHC-P=1:100-500,IHC-F=,ICC/IF=1:20-1:100,IF=0,Flow-Cyt=1:20-1:100
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

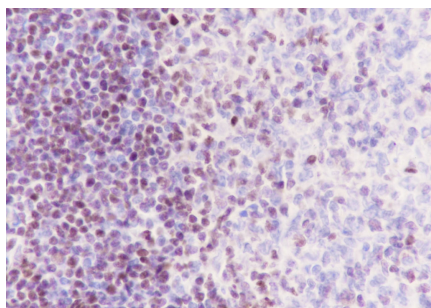
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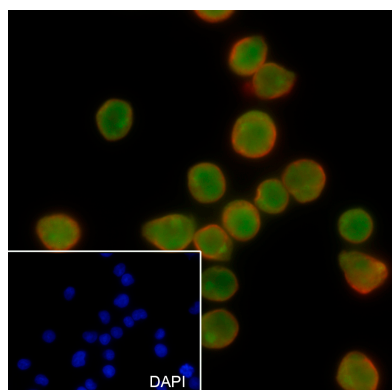
## Images



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Rabbit IgG H&L (HRP) Lysate: 1: Jurkat, 2: THP-1 Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 86 kDa Observed MW: 100 kDa

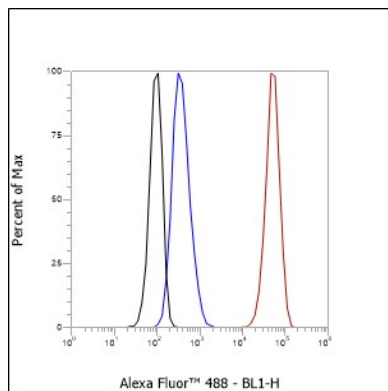


Tissue: Human tonsil Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94379



Cell line: Jurkat Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for AP94379

Cell line: Jurkat Fixative: 4% Paraformaldehyde Permeabilization: 90% Methanol Primary ab dilution: 1:100 Secondary ab: Goat anti Rabbit IgG Unlabelled control: The cell without incubation with primary antibody and secondary antibody (Black line). Isotype



control: Rabbit monoclonal IgG (Blue line). Comment:  
Line red is the positive signal for AP94379

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.