

## DESCRIPTION

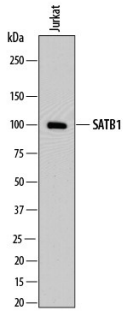
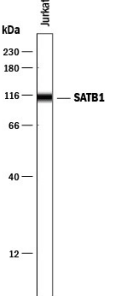
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse SATB1 in ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 815427
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human SATB1 Met1-Ser260 Accession # Q01826
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Simple Western</b>	10 µg/mL	See Below

## DATA

Western Blot	Detection of Human SATB1 by Western Blot	Simple Western	Detection of Human SATB1 by Simple Western™
	<p><b>Detection of Human SATB1 by Western Blot.</b> Western blot shows lysates of Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SATB1 Monoclonal Antibody (Catalog # MAB8075) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SATB1 at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>		<p><b>Detection of Human SATB1 by Simple Western™.</b> Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.5 mg/mL. A specific band was detected for SATB1 at approximately 113 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human/Mouse SATB1 Monoclonal Antibody (Catalog # MAB8075). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

SATB1 (special AT-rich sequence binding protein-1) is an approximately 103 kDa nuclear matrix-associated homeobox transcription factor that binds AT rich DNA sequences at scaffolding protein attachment and viral genome integration sites. It is a key factor integrating higher-order chromatin architecture with gene regulation. Specifically, it is involved in MHC class-I gene organization and chromatin organization in undifferentiated thymocytes. SATB1 is cleaved into 65-70 kDa and 25-30 kDa fragments during apoptosis. Human SATB1 shares 99% amino acid sequence identity with mouse and rat SATB1.