

Product datasheet

Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal ab51502

KO VALIDATED

★★★★★ [17 Abreviews](#) [269 References](#) [6 Images](#)

Overview

Product name	Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal
Description	Mouse monoclonal [SATBA4B10] to SATB1 + SATB2 - C-terminal
Host species	Mouse
Tested applications	Suitable for: ICC, IP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human SATB2 (C terminal).
Positive control	ICC: HT10180 cells. WB: NIH/3T3 and HT1080 whole cell lysate. IP: SATB2 IP in HeLa cell lysate.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 9th August 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 1% BSA, 0.812% Sodium chloride, 0.0225% Potassium chloride, 0.0204% Monobasic dihydrogen potassium phosphate, 0.1136% Dibasic monohydrogen sodium phosphate</p>

Purity	Protein G purified
Purification notes	Purified from TCS
Clonality	Monoclonal
Clone number	SATBA4B10
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51502 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

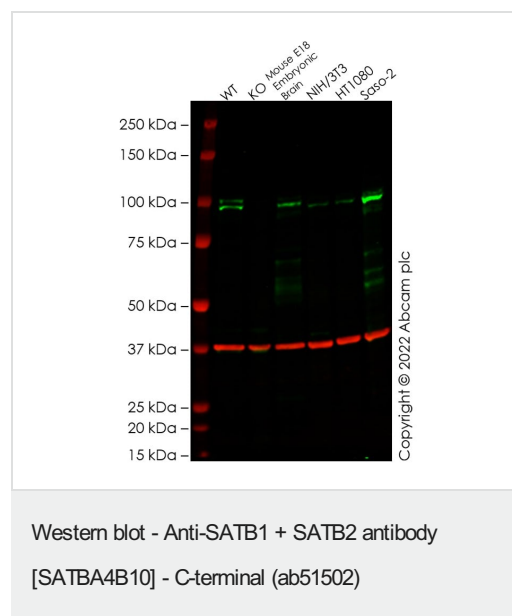
Application	Abreviews	Notes
ICC		Use a concentration of 2 - 100 µg/ml.
IP		Use at an assay dependent concentration. 100-500 µg/sample
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 81 kDa.

Target

Cellular localization SATB1: Nucleus matrix. Nucleus > PML body. Organized into a cage-like network anchoring loops of heterochromatin and tethering specialized DNA sequences. When sumoylated, localized in promyelocytic leukemia nuclear bodies. SATB2: Nucleus matrix.

Form SATB1: There are 2 isoforms produced by alternative splicing.

Images



All lanes : Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502) at 2 µg

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : SATB2 knockout HAP1 cell lysate

Lane 3 : Mouse E18 Embryonic brain cell lysate

Lane 4 : NIH 3T3 cell lysate

Lane 5 : HT1080 cell lysate

Lane 6 : Saos-2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution

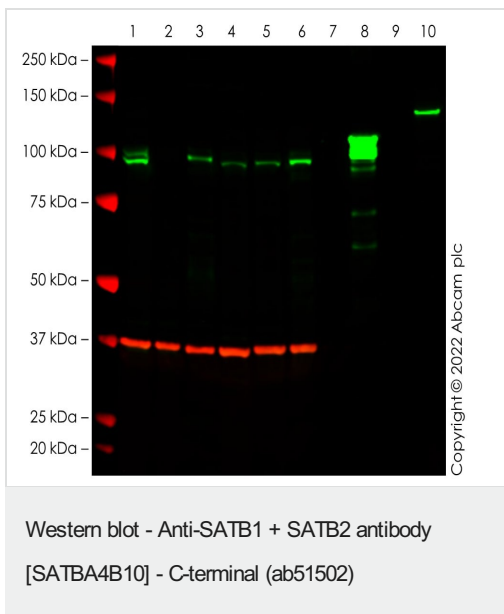
Performed under reducing conditions.

Predicted band size: 81 kDa

Observed band size: 100 kDa

False colour image of Western blot: Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal staining at 2 ug/ml, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] ([ab181602](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab51502 was shown to bind specifically to SATB1. A band was observed at 100 kDa in wild-type HAP1 cell lysates with no signal observed at this size in SATB1 knockout cell line.

To generate this image, wild-type and SATB1 knockout HAP1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution.



All lanes : Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502) at 2 µg/ml

Lane 1 : Wild-type HAP1 cell lysate at 20 µg

Lane 2 : SATB2 knockout HAP1 cell lysate at 20 µg

Lane 3 : Mouse E18 Embryonic brain cell lysate at 20 µg

Lane 4 : NIH/3T3 cell lysate at 20 µg

Lane 5 : HT1080 cell lysate at 20 µg

Lane 6 : Saos-2 cell lysate at 20 µg

Lanes 7 & 9 : Empty at 0 µg

Lane 8 : SATB1 Recombinant Protein cell lysate at 0.1 µg

Lane 10 : SATB2 Recombinant Protein ([ab132405](#)) cell lysate at 0.1 µg

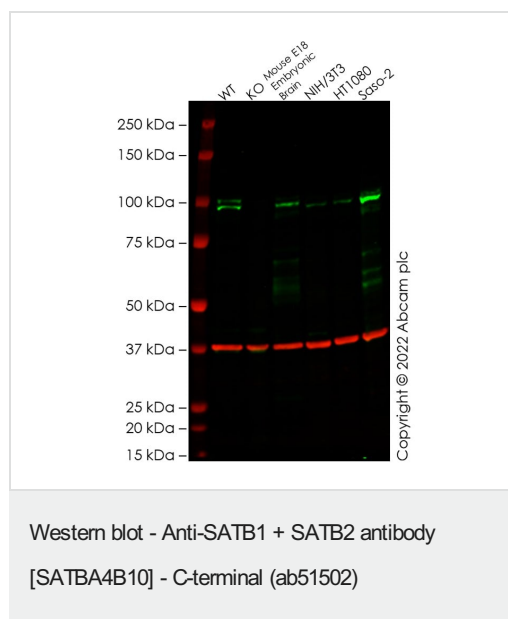
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All lanes : Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502) at 2 µg/ml

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : SATB2 knockout HAP1 cell lysate

Lane 3 : Mouse E18 Embryonic brain cell lysate

Lane 4 : NIH 3T3 cell lysate

Lane 5 : HT1080 cell lysate

Lane 6 : Saos-2 cell lysate

Lysates/proteins at 20 µg per lane.

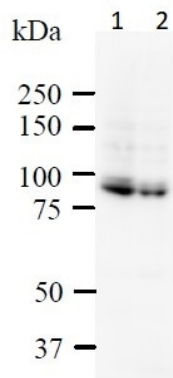
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Observed band size: 100 kDa

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Western blot - Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502)

All lanes : Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502) at 2 µg/ml

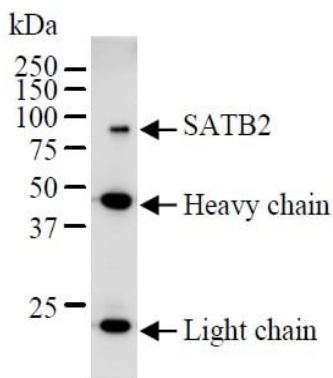
Lane 1 : HT1080 (Human fibrosarcoma cell line) whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryo fibroblast cell line) cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 81 kDa

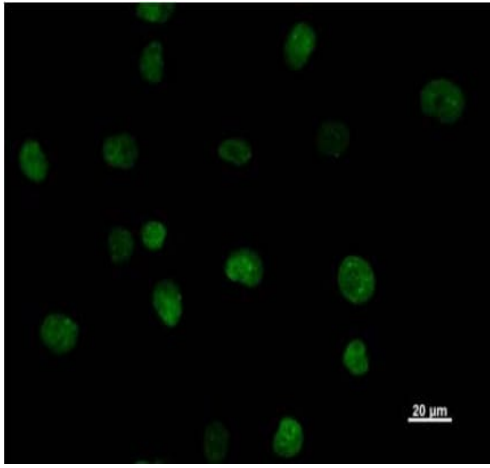
Observed band size: 82 kDa



Immunoprecipitation - Anti-SATB1 + SATB2 antibody [SATBA4B10] - C-terminal (ab51502)

Immunoprecipitation using ab51502 at 500 µg/sample.

Sample: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate prepared in RIPA buffer.



4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT1080 (Human fibrosarcoma cell line) cells labeled for SATB2 using ab51502 at 100 µg/ml in immunocytochemistry.

Immunocytochemistry - Anti-SATB1 + SATB2
antibody [SATBA4B10] - C-terminal (ab51502)

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