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(818)-707-0392 (Fax)
order@abiocode.com
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SATB1 (vPair™) Antibodies

Cat#: R0009-vp

Lot#: Refer to vial

Predicted M.W.: 86 kDa

Uniprot ID: Q01826

Application: WB

Quantity: 50 ul SATB1 (N) (R0009-1) Rabbit Polyclonal Antibody &
50 ul SATB1 (C) (R0009-2) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

Special AT-rich sequence-binding protein 1 (SATB1) is a chromatin organizer and transcription factor that integrates chromatin architecture with gene regulation. SATB1 binds to nuclear matrix/scaffold-associated AT-rich DNA sequences (MARs/SARs). It has been shown that SATB1 interacts with promyelocytic leukemia protein (PML), and that SATB1 and PML function as a regulatory complex that controls transcription by restructuring the dynamic chromatin-loop architecture. SATB1 is implicated as a key regulator of the differentiation and activation of T cells. In cancer, SATB1 has been shown to reprogram chromatin organization and the transcription profiles of breast tumors to promote growth and metastasis.

Other Names:

OTTHUMP00000207689, Special AT-rich sequence-binding protein 1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing either the N-terminal [SATB1 (N) (R0009-1)] or the C-terminal [SATB1 (C) (R0009-2)] regions of human SATB1. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 12 months from date of receipt.

Species Specificity:

Human, Mouse

Applications & Recommended Conditions:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

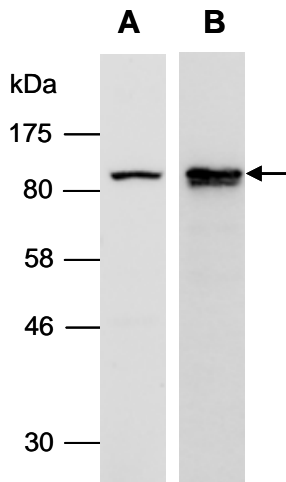


Fig 1. Western blot of total cell extracts from mouse thymus, using 2 independent antibodies against 2 distinct regions of human SATB1 [A: R0009-1 (N-terminal); B: R0009-2 (C-terminal)] at RT for 2 h.