Recombinant SATB1 Monoclonal Antibody

catalog number: **AN301652L**

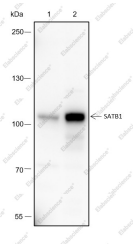
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant human SATB1 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C321275
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:200-1:1000
FCM	1:50-1:100

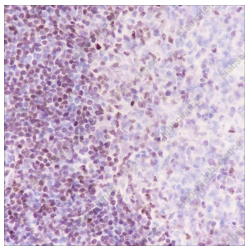
Data



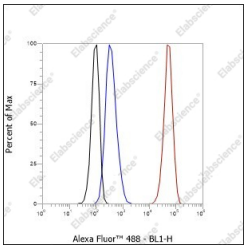
Western Blot with SATB1 Monoclonal Antibody at dilution of 1:2000. Lane 1: Jurkat, Lane 2: THP-1

Observed-MW:100 kDa

Calculated-MW:86 kDa



Immunohistochemistry of paraffin-embedded Human tonsil using SATB1 Monoclonal Antibody at dilution of 1:1000.



Flow cytometric analysis of human SATB1 expression on Jurkat cells. Cells were stained with purified anti-Human SATB1, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

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Background

Crucial silencing factor contributing to the initiation of X inactivation mediated by Xist RNA that occurs during embryogenesis and in lymphoma. Binds to DNA at special AT-rich sequences, the consensus SATB1-binding sequence (CSBS), at nuclear matrix- or scaffold-associated regions. 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.

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