



Rabbit Anti-SATB1 monoclonal antibody, clone TQ06-14 (CABT-L597)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	SATB1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TQ06-14
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP, FC
Molecular Weight	100 kDa
Cellular Localization	Nucleus matrix, Nucleus.
Positive Control	Human thymus tissue, rat spleen tissue, mouse thymus tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

The homeoproteins CCAAT displacement protein (CDP) and special AT-rich sequence binding protein 1 (SATB1) are transcriptional repressors of many cellular genes, and they participate in cell development and cell type differentiation. SATB1 is expressed primarily in thymocytes, and, like CDP, it also contains a distinct homeobox DNA-binding domain that is essential for DNA binding. SATB1 and CDP interact through these homeodomains and synergistically function as mediators of gene expression. SATB1 contains an additional domain that has a higher affinity for DNA and specifically facilitates the direct association between SATB1 and the nuclear matrix attachment regions (MARs) of DNA. MARs are specific DNA sequences that bind to the nuclear matrix and form the base of chromosomal loops that organize the chromosomes and regulate DNA transcription and replication within the nucleus. The association of SATB1 with the core unwinding element within the base-unpairing region of MARs requires both the MAR and homeobox binding domains of SATB1.

Keywords

DNA binding protein SATB1;DNA-binding protein SATB1;SATB homeobox 1;SATB1;SATB1_HUMAN;Special AT rich sequence binding protein 1 (binds to nuclear matrix/scaffold associating DNA);Special AT rich sequence binding protein 1;Special AT-rich sequence-binding protein 1 antibody
