

For Research Use Only

# CoraLite® Plus 488-conjugated SATB2 Monoclonal antibody



Catalog Number: CL488-67958

Featured Product

## Basic Information

Catalog Number:

CL488-67958

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17237

GenBank Accession Number:

BC098136

GeneID (NCBI):

23314

UNIPROT ID:

Q9UPW6

Full Name:

SATB homeobox 2

Calculated MW:

733 aa, 83 kDa

Observed MW:

70-83 kDa

Purification Method:

Protein G purification

CloneNo.:

2F8E2

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

Species Specificity:

Human, mouse

## Background Information

SATB2, also named as KIAA1034, belongs to the CUT homeobox family. SATB2 binds to DNA at nuclear matrix- or scaffold-associated regions. SATB2 recognizes the sugar-phosphate structure of double-stranded DNA. SATB2 is a transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. SATB2 acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. It is required for the initiation of the upper-layer neurons (UL1) specific genetic program and for the inactivation of deep-layer neurons (DL) and UL2 specific genes, probably by modulating BCL11B expression. It is a repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. SATB2 may play an important role in palate formation. SATB2 acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation. SATB2 has two isoforms produced by alternative splicing with the MW of 70 kDa and 83 kDa. It can be detected as 83-90 kDa.

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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## Selected Validation Data