

Product datasheet for TA306604

SATB1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: SATB1 antibody was raised against a 18 amino acid peptide near the amino terminus of the

human SATB1.

Formulation: PBS containing 0.02% sodium azide.

Concentration: 1ug/ul

Purification: Affinity chromatography purified via peptide column

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: SATB homeobox 1

Database Link: NP 001124482

Entrez Gene 20230 MouseEntrez Gene 316164 RatEntrez Gene 6304 Human

Q01826



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

Human special AT-rich sequence-binding protein-1 (SATB1) is a nuclear matrix/scaffold-associated region DNA-binding protein, predominantly expressed in the thymus and pre-B cells. Like its homolog SATB2, SATB1 selectively binds double-stranded, special AT-rich DNA sequences in which one strand exclusively consists of well-mixed A, T, and C nucleotides. SATB1 contains a dimerization domain that shares similarity with the PDZ motif, identified as an indispensable element for high-affinity binding of SATB1 to DNA. SATB1 constitutes a functional nuclear architecture that has a 'cage-like' protein distribution surrounding heterochromatin and regulates gene expression through chromatin remodeling/HDAC (histone deacetylase complex) and transcription factors recruitment. SATB1 functions as a 'genome organizer' essential for proper T-cell development. Recent studies show that SATB1 is necessary for breast cancer cells to become metastatic, and when ectopically expressed in non-metastatic cells, can induce invasive activity in vivo. At least two isoforms of SATB1 are known to exist.

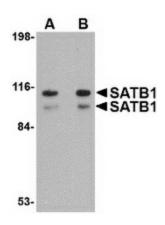
Synonyms:

DNA-binding protein SATB1; SATB homeobox 1; scaffold-associating DNA's); special AT-rich sequence binding protein 1; special AT-rich sequence binding protein 1 (binds to nuclear matrix

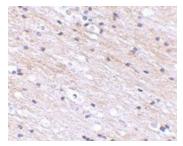
Protein Families:

Druggable Genome, Transcription Factors

Product images:

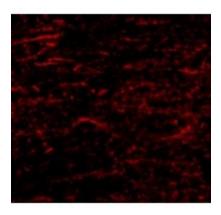


Western blot analysis of SATB1 in SK-N-SH cell lysate with SATB1 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of SATB1 in human brain tissue with SATB1 antibody at 2.5 ug/ml.





Immunofluorescence of SATB1 (NT) in Human Brain cells with SATB1 (NT) antibody at 20 ug/mL.