

For Research Use Only

SATB1 Polyclonal antibody

Catalog Number: 15400-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

15400-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7615

GenBank Accession Number:

BC001744

GeneID (NCBI):

6304

Full Name:

SATB homeobox 1

Calculated MW:

86 kDa

Observed MW:

86-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB : human brain tissue, HEK-293 cells, mouse brain tissue, mouse spleen tissue, rat brain tissue

IP : HEK-293 cells,

Background Information

Epigenetic modifications and dynamic changes in chromatin organization by organizer proteins have recently been shown to play an instrumental role in regulating cancer-promoting genes. Special AT-rich binding protein (SATB1) is a unique type of global regulator that integrates higher-order chromatin organization -with regulation of gene expression. [PMID:23076250,22998183,23121661] SATB1 is a T cell-enriched transcription factor and a chromatin organizer essential for controlling genes that participate in T-cell development and activation. It regulates gene expression by periodically anchoring matrix attachment regions to the nuclear matrix and directly recruiting chromatin-modifying factors. Depending on its posttranslational modifications, SATB1 activates or represses multiple genes. Its expression is regulated by interleukin-4 (IL4) during T helper-2(Th2) cell differentiation [PMID: 20522714]. The calculated molecular weight of SATB1 is 86 kDa, but modified SATB1 is about 100 kDa (PMID: 22879953).

Notable Publications

Author	Pubmed ID	Journal	Application
Sikai Zhan	36274077	Mol Neurobiol	WB
Dongni Zhou	33390772	Int J Med Sci	WB
Jiale Cai	35483515	Pharmacol Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

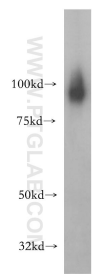
For technical support and original validation data for this product please contact:

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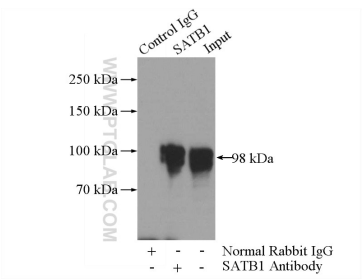
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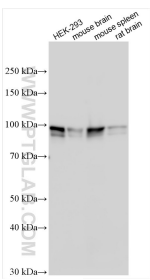
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 15400-1-AP (SATB1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP Result of anti-SATB1 (IP:15400-1-AP, 4ug; Detection:15400-1-AP 1:500) with HEK-293 cells lysate 2000ug.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 15400-1-AP (SATB1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.