For Research Use Only

SATB2 Monoclonal antibody

Catalog Number:67958-1-lg Featured Product



Basic Information

Catalog Number: GenBank Accession Number:

BC098136 Protein G purification 67958-1-lg GeneID (NCBI): CloneNo.:

150ul, Concentration: 1000 µg/ml by 23314 2F8F2 Recommended Dilutions:

SATB homeobox 2

Mouse Calculated MW: Isotype: 733 aa, 83 kDa lgG1 Observed MW: Immunogen Catalog Number: 85-100 kDa

AG17237

Source:

Applications

Tested Applications:

IHC, WB, ELISA Species Specificity:

Human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, SW480 cells, NIH/3T3 cells, fetal

Purification Method:

WB 1:2000-1:10000 IHC 1:250-1:1000

human brain tissue, K-562 cells

IHC: human colon tissue.

Background Information

SATB2, also named as KIAA1034, belongs to the CUT homeobox family. SATB2 binds to DNA at nuclear matrix- or scaffold-associated regions. STAB2 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 85-105 kDa by sumo modification (PMID: 14701874, PMID: 35140581).

Storage

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

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

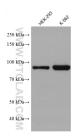
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

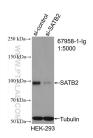
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

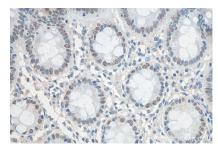
Selected Validation Data



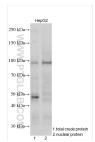
Various lysates were subjected to SDS PAGE followed by western blot with 67958-1-1g (SATB2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



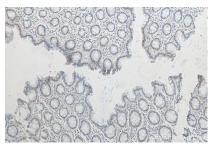
WB result of SATB2 antibody (67958-1-lg; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SATB2 transfected HEK-293 cells.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 67958-1-Ig (SATB2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HepG2 cell lysates and HepG2 nuclear protein were subjected to SDS PAGE followed by western blot with 67958-1-Ig (SATB2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 67958-1-Ig (SATB2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).