

SATB2 Rabbit mAb

Catalog No: #49685

Package Size: #49685-1 50ul #49685-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

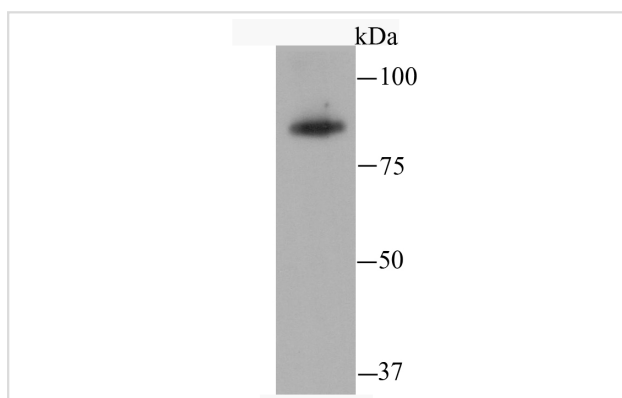
Description

| | |
|-----------------------|--|
| Product Name | SATB2 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Purification | ProA affinity purified |
| Applications | WB, ICC/IF, IHC, FC |
| Species Reactivity | Hu, Ms, Rt |
| Immunogen Description | Recombinant protein |
| Other Names | DNA binding protein SATB2 antibody DNA-binding protein SATB2 antibody FLJ21474 antibody FLJ32076 antibody GLSS antibody KIAA1034 antibody MGC119474 antibody MGC119477 antibody SATB family member 2 antibody SATB homeobox 2 antibody SATB2 antibody SATB2_HUMAN antibody Special AT rich sequence binding protein 2 antibody Special AT-rich sequence-binding protein 2 antibody |
| Accession No. | Swiss-Prot#:Q9UPW6 |
| Uniprot | Q9UPW6 |
| GeneID | 23314; |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

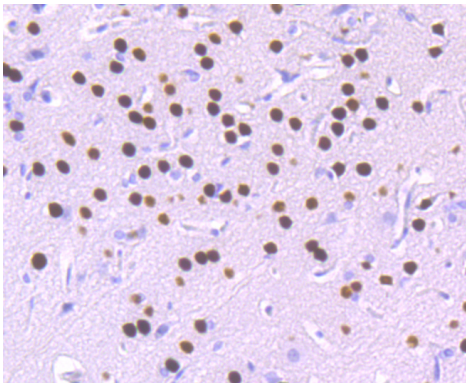
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC/IF: 1:50-1:100FC: 1:50-1:100

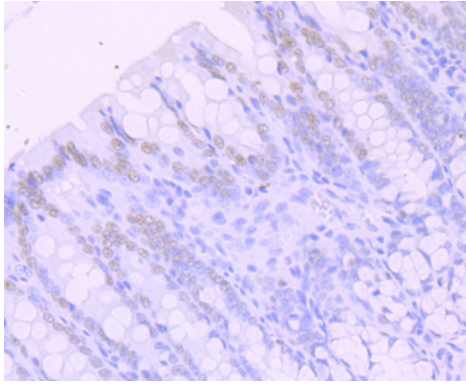
Images



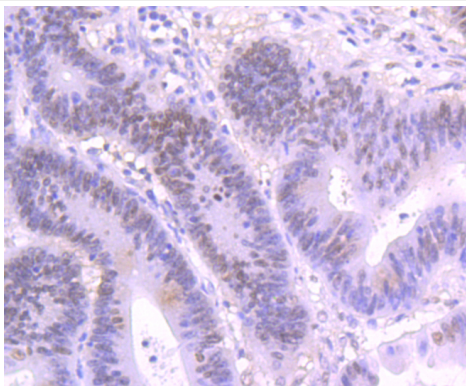
Western blot analysis of SATB2 on THP-1 cell using anti-SATB2 antibody at 1/500 dilution.



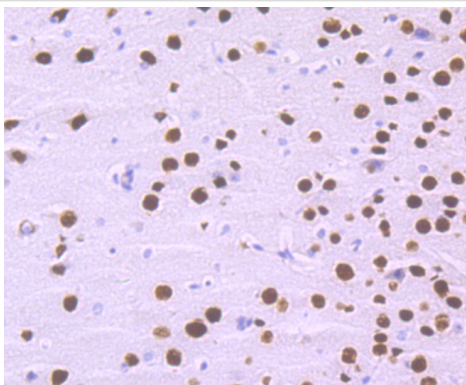
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-SATB2 antibody. Counter stained with hematoxylin.



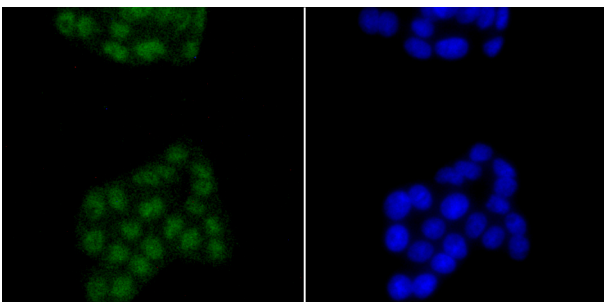
Immunohistochemical analysis of paraffin-embedded rat large intestine tissue using anti-SATB2 antibody. Counter stained with hematoxylin.



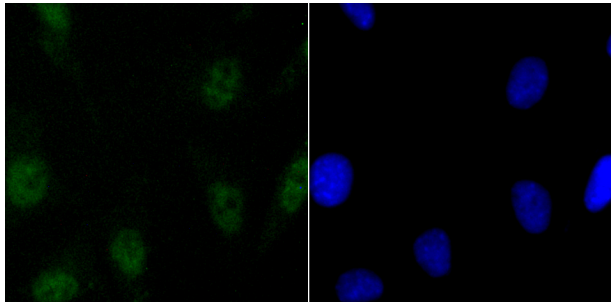
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-SATB2 antibody. Counter stained with hematoxylin.



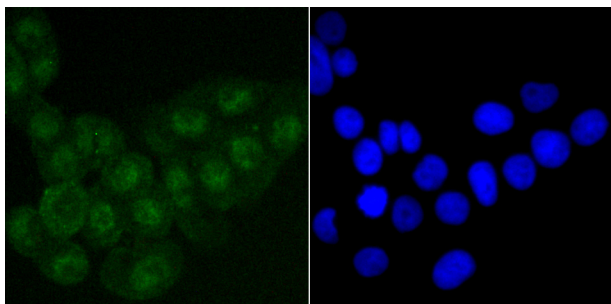
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-SATB2 antibody. Counter stained with hematoxylin.



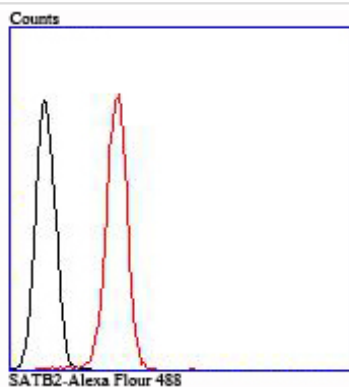
ICC staining SATB2 in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SATB2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SATB2 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY5Y cells with SATB2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Background

SATB2 (Special AT-rich sequence-binding protein 2) is a nuclear matrix protein that influences craniofacial formation mechanisms, such as jaw and palate development, and is part of a transcriptional network regulating skeletal development and osteoblast differentiation. Highly expressed in adult and fetal brain, SATB2 contains two CUT DNA-binding domains and one homeobox domain and is closely related to SATB1, a transcriptional repressor. SATB2 is thought to bind to matrix-attachment regions (MARs) and regulate MAR-dependent transcription of various genes, including HoxA2 and ATF4 (CREB-2), involved in skeletal development. Functioning as both a transcriptional activator and repressor, SATB2 can also act as a protein scaffold that can enhance the activity of other DNA-binding proteins. Defects in the gene encoding SATB2 are the cause of cleft palate manifested in conjunction with severe mental retardation.

References

Note: This product is for in vitro research use only