Data Sheet (Cat.No.TMAC-03688)

Anti-SATB2 Antibody (4X996)

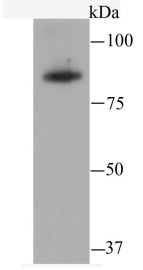
Product Details

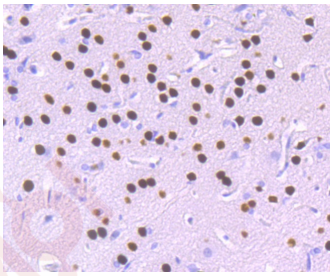
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Clone:	4X996
Purification:	ProA affinity purified

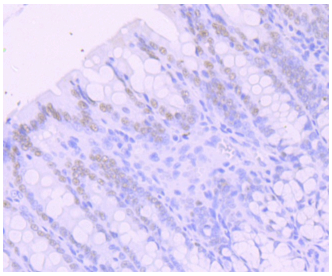
Applications

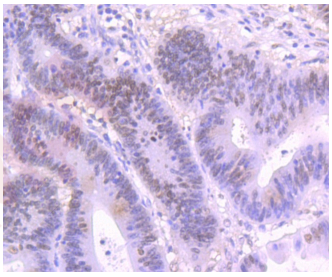
Verified Activity:

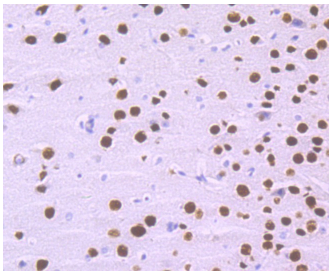
1. Western blot analysis of SATB2 on THP-1 cell using anti-SATB2 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-SATB2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat large intestine tissue using anti-SATB2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-SATB2 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-SATB2 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.
9. 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).

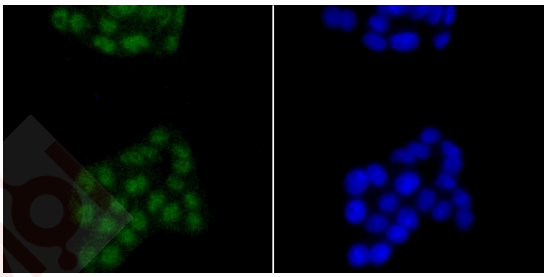


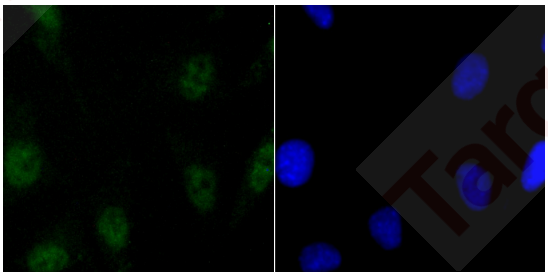


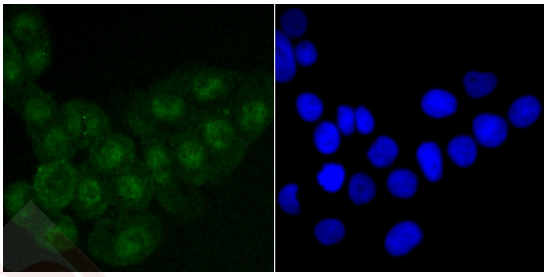


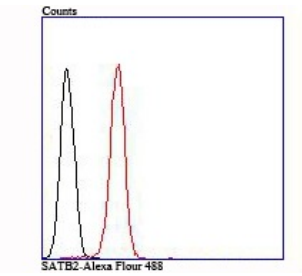












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:50-100; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9UPW6

Synonyms: Special AT-rich sequence-binding protein 2;SATB 2;KIAA1034;DNA-binding protein SATB2

Research 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.

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