

Anti-SATB2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

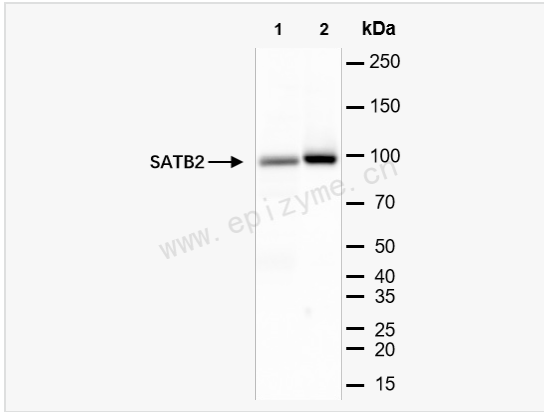
Catalog # R014745

Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	97P15N72
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SATB2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SATB2 Rabbit mAb [97P15N72] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	DNA binding protein SATB2, DNA-binding protein SATB2, FLJ21474, FLJ32076, GLSS, KIAA1034, MGC119474, MGC119477, SATB family member 2, SATB homeobox 2, SATB2, SATB2_HUMAN, Special AT rich sequence binding protein 2, Special AT-rich sequence-binding protein 2.
Calculated MW	Calculated MW: 83 kDa; Observed MW: 100 kDa
Uniprot ID	Q9UPW6
Gene ID	23314
Background	Binds to DNA, at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers.
Cellular Location	Nucleus matrix.
Tissue Location	High expression in adult brain, moderate expression in fetal brain, and weak expression in adult liver, kidney, and spinal cord and in select brain regions, including amygdala, corpus callosum, caudate nucleus, and hippocampus.



Western Blot - Anti-SATB2 Rabbit mAb [97P15N72]

All lanes: R014745 at 1:1,000 dilution

Lane 1: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 2: Rat brain whole tissue lysates

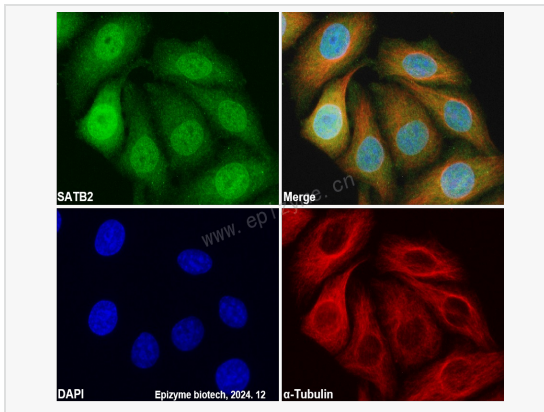
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 83 kDa

Observed band size: 100 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-SATB2 Rabbit mAb [97P15N72]

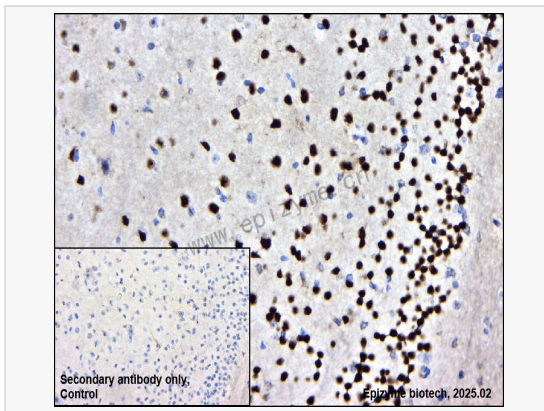
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014745 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-SATB2 Rabbit mAb [97P15N72]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014745 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.