

Rabbit SATB2 Polyclonal Antibody | anti-SATB2 antibody

SATB2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323698	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SATB2; Polyclonal Antibody; SATB2 Antibody; DNA binding protein SATB2; DNA-binding protein SATB2; FLJ21474; FLJ32076; GLSS; KIAA1034; MGC119474; MGC119477; SATB family member 2; SATB homeobox 2; SATB2_HUMAN; Special AT rich sequence binding protein 2; Special AT-rich sequence-binding protein 2; anti-SATB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SATB2 antibody detects endogenous levels of total SATB2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	733
Applicable Applications for anti-SATB2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SATB2
Subcellular Location	Nucleus Matrix.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA323698 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA323698 staining U87 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis SATB2 using HepG2 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-SATB2 antibody

Function: 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. 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. Repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. May play an important role in palate formation. Acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation.

Subunit Structure: Interacts with ATF4 and RUNX2; resulting in enhanced DNA binding and transactivation by these transcription factors (By similarity). Interacts with PIAS1.

Post-translational Modifications: Sumoylated by PIAS1. Sumoylation promotes nuclear localization, but represses transcription factor activity.

Similarity: Belongs to the CUT homeobox family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	289547596
NCBI GeneID	23314
NCBI Accession #	NP_001165980.1
NCBI GenBank Nucleotide #	NM_001172509.1
UniProt Accession #	Q9UPW6; Q3ZB87; Q4V763; A8K5Z8
Molecular Weight	Observed: 81 kDa Predicted: 83 kDa
NCBI Official Full Name	DNA-binding protein SATB2
NCBI Official Synonym Full Names	SATB homeobox 2
NCBI Official Symbol	SATB2
NCBI Official Synonym Symbols	GLSS
NCBI Protein Information	DNA-binding protein SATB2
UniProt Protein Name	DNA-binding protein SATB2
UniProt Gene Name	SATB2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/satb2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/323698>