

SATB2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16464c**Specification**

SATB2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UPW6](#)**SATB2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 23314**Other Names**

DNA-binding protein SATB2, Special AT-rich sequence-binding protein 2, SATB2, KIAA1034

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SATB2 Antibody (Center) Blocking Peptide - Protein Information**Name** SATB2**Synonyms** KIAA1034**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.

Cellular Location

Nucleus matrix {ECO:0000255|PROSITE- ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00374, ECO:0000269|PubMed:14701874}

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.

SATB2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SATB2 Antibody (Center) Blocking Peptide - Images**SATB2 Antibody (Center) Blocking Peptide - Background**

This gene encodes a DNA binding protein that specifically binds nuclear matrix attachment regions. The encoded protein is involved in transcription regulation and chromatin remodeling. Defects in this gene are associated with isolated cleft palate and mental retardation. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq].

SATB2 Antibody (Center) Blocking Peptide - References

McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010) Carter, T.C., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(2):84-93(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Rosenfeld, J.A., et al. PLoS ONE 4 (8), E6568 (2009) : Beaty, T.H., et al. Hum. Genet. 120(4):501-518(2006)