

RBBP4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1909a**Specification**

RBBP4 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q09028](#)**RBBP4 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 5928**Other Names**

Histone-binding protein RBBP4, Chromatin assembly factor 1 subunit C, CAF-1 subunit C, Chromatin assembly factor I p48 subunit, CAF-I 48 kDa subunit, CAF-I p48, Nucleosome-remodeling factor subunit RBAP48, Retinoblastoma-binding protein 4, RBBP-4, Retinoblastoma-binding protein p48, RBBP4, RBAP48

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1909a](/product/products/AP1909a) was selected from the N-term region of human RBBP4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

RBBP4 Antibody (N-term) Blocking Peptide - Protein Information**Name** RBBP4**Synonyms** RBAP48**Function**

Core histone-binding subunit that may target chromatin assembly factors, chromatin remodeling factors and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA (PubMed: [10866654](http://www.uniprot.org/citations/10866654)). Component of the chromatin assembly factor 1 (CAF-1) complex, which is required for chromatin assembly following DNA replication and DNA repair (PubMed: [8858152](http://www.uniprot.org/citations/8858152)). Component of the core histone deacetylase (HDAC) complex, which promotes histone

deacetylation and consequent transcriptional repression (PubMed:9150135). Component of the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling (PubMed:16428440, PubMed:28977666, PubMed:39460621). Component of the PRC2 complex, which promotes repression of homeotic genes during development (PubMed:29499137, PubMed:31959557). Component of the NURF (nucleosome remodeling factor) complex (PubMed:14609955, PubMed:15310751).

Cellular Location

Nucleus. Chromosome, telomere. Note=Localizes to chromatin as part of the PRC2 complex.

Tissue Location

Expressed in neuroblastoma cells.

RBBP4 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RBBP4 Antibody (N-term) Blocking Peptide - Images

RBBP4 Antibody (N-term) Blocking Peptide - Background

RBBP4 is a ubiquitously expressed nuclear protein which belongs to a highly conserved subfamily of WD-repeat proteins. It is present in protein complexes involved in histone acetylation and chromatin assembly. It is part of the Mi-2 complex which has been implicated in chromatin remodeling and transcriptional repression associated with histone deacetylation. This encoded protein is also part of co-repressor complexes, which is an integral component of transcriptional silencing. It is found among several cellular proteins that bind directly to retinoblastoma protein to regulate cell proliferation. This protein also seems to be involved in transcriptional repression of E2F-responsive genes.

RBBP4 Antibody (N-term) Blocking Peptide - References

Song, H., et al., World J. Gastroenterol. 10(4):509-513 (2004). Yao, Y.L., et al., J. Biol. Chem. 278(43):42560-42568 (2003). Hengstschrager, M., et al., Biochem. Biophys. Res. Commun. 307(3):737-742 (2003). Zhang, Y., et al., J. Biol. Chem. 277(36):33431-33438 (2002). Kuzmichev, A., et al., Genes Dev. 16(22):2893-2905 (2002).