



## Rabbit Anti-RBBP7/RbAp46 antibody

SL19740R

<b>Product Name:</b>	RBBP7/RbAp46
<b>Chinese Name:</b>	组蛋白Binding proteinRBBP7抗体
<b>Alias:</b>	G1/S transition control protein binding protein RbAp46; Histone acetyltransferase type B subunit 2; Histone binding protein RBBP 7; Histone binding protein RBBP7; Histone-binding protein RBBP7; MGC138867; MGC138868; Nucleosome remodeling factor subunit RBAP46; Nucleosome-remodeling factor subunit RBAP46; RbAp 46; RBAP46; RBBP 7; RBBP-7; RBBP7; RBBP7_HUMAN; Retinoblastoma binding protein 7; Retinoblastoma binding protein p46; Retinoblastoma binding protein RbAp46; Retinoblastoma protein associated protein 46; Retinoblastoma-binding protein 7; Retinoblastoma-binding protein p46; Retinoblastoma-binding protein RbAp46.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	48kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human RBBP7/RbAp46:2-100/425
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

This protein is a ubiquitously expressed nuclear protein and belongs to a highly conserved subfamily of WD-repeat proteins. It is found among several proteins that binds directly to retinoblastoma protein, which regulates cell proliferation. The encoded protein is found in many histone deacetylase complexes, including mSin3 co-repressor complex. It is also present in protein complexes involved in chromatin assembly. This protein can interact with BRCA1 tumor-suppressor gene and may have a role in the regulation of cell proliferation and differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

**Function:**

Core histone-binding subunit that may target chromatin remodeling factors, histone acetyltransferases and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA. Component of several complexes which regulate chromatin metabolism. These include the type B histone acetyltransferase (HAT) complex, which is required for chromatin assembly following DNA replication; the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and consequent transcriptional repression; the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling; and the PRC2/EED-EZH2 complex, which promotes repression of homeotic genes during development; and the NURF (nucleosome remodeling factor) complex.

**Subunit:**

Binds directly to helix 1 of the histone fold of histone H4, a region that is not accessible when H4 is in chromatin. Subunit of the type B histone acetyltransferase (HAT) complex, composed of RBBP7 and HAT1. Subunit of the core histone deacetylase (HDAC) complex, which is composed of HDAC1, HDAC2, RBBP4 and RBBP7. The core HDAC complex associates with SIN3A, ARID4B/SAP180, SAP18, SAP30, SAP130, SUDS3/SAP45 and possibly ARID4A/RBP1 and ING1 to form the SIN3 HDAC complex. The core HDAC complex may also associate with MTA2, MBD3, CHD3 and CHD4 to form the nucleosome remodeling and histone deacetylase complex (the NuRD complex). The NuRD complex may also interact with MBD3L1 and MBD3L2. Interacts with MTA1. Subunit of the PRC2/EED-EZH2 complex, which is composed of at least EED, EZH2, RBBP4, RBBP7 and SUZ12. The PRC2/EED-EZH2 complex may also associate with HDAC1. Part of the nucleosome remodeling factor (NURF) complex which consists of SMARCA1; BPTF; RBBP4 and RBBP7. Interacts with the viral protein-binding domain of the retinoblastoma protein (RB1). Interacts with CREBBP, and this interaction may be enhanced by the binding of phosphorylated CREB1 to CREBBP. Interacts with BRCA1, HDAC7 and SUV39H1.

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the WD repeat RBAP46/RBAP48/MSI1 family.  
Contains 7 WD repeats.

**Product Detail:**

**SWISS:**  
Q16576

**Gene ID:**  
5931

**Database links:**

[Entrez Gene: 537402](#) Cow

[Entrez Gene: 5931](#) Human

[Entrez Gene: 245688](#) Mouse

[Entrez Gene: 83712](#) Rat

[Omim: 300825](#) Human

[SwissProt: Q3SWX8](#) Cow

[SwissProt: Q16576](#) Human

[SwissProt: Q60973](#) Mouse

[SwissProt: Q71UF4](#) Rat

[Unigene: 495755](#) Human

[Unigene: 270186](#) Mouse

[Unigene: 371732](#) Mouse

[Unigene: 3600](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.