



## Rabbit Anti-RbAp48 antibody

SL6130R

<b>Product Name:</b>	RbAp48
<b>Chinese Name:</b>	视网膜母细胞瘤Binding proteinP48抗体
<b>Alias:</b>	RBBP4_HUMAN; 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.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Rabbit,Zebrafish,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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>	47kDa
<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 RbAp48:231-330/425
<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>
<b>Product Detail:</b>	RbAp48 (Retinoblastoma-binding protein p48 or Rb-associated protein p48)is a WD repeat protein that is a core histone binding subunit common to several complexes involved in chromatin assembly, chromatin remodeling, and histone deacetylation. These complexes include Chromatin Assembly Factor 1 (CAF1), which is required for

chromatin assembly following DNA replication and repair, the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and subsequent transcriptional repression, the nucleosome remodeling and histone deacetylation complex NuRD, the nucleosome remodeling factor (NURF) complex, and the PRC2 complex, which promotes repression of homeotic genes during development. RbAp48 also interacts with the retinoblastoma protein, and with SPEN/MINT and BRCA1. It is also a component of the DREAM complex, which represses cell cycle-dependent genes in quiescent cells.

**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. Component of several complexes which regulate chromatin metabolism. These include the chromatin assembly factor 1 (CAF-1) complex, which is required for chromatin assembly following DNA replication and DNA repair; 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; the PRC2/EED-EZH2 complex, which promotes repression of homeotic genes during development; and the NURF (nucleosome remodeling factor) complex.

**Subunit:**

Interacts with SUV39H1 and HDAC7 (By similarity). 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 chromatin assembly factor 1 (CAF-1) complex, which is composed of RBBP4, CHAF1B and CHAF1A. 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. Component of the PRC2/EED-EZH1 complex, which includes EED, EZH1, SUZ12, RBBP4 and AEBP2. 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 SPEN/MINT. Interacts with BRCA1. Interacts with CREBBP, and this interaction may be enhanced by the binding of phosphorylated CREB1 to CREBBP. Component of the DREAM complex (also named LINC complex) at least composed of E2F4, E2F5, LIN9, LIN37, LIN52, LIN54, MYBL1, MYBL2, RBL1, RBL2, RBBP4, TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9, LIN37, LIN52 and LIN54 form a subcomplex that binds to MYBL2.

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the WD repeat RBAP46/RBAP48/MSI1 family.  
Contains 6 WD repeats.

**SWISS:**

Q09028

**Gene ID:**

5928

**Database links:**

[Entrez Gene: 5928](#) Human

[Entrez Gene: 19646](#) Mouse

[Entrez Gene: 313048](#) Rat

[Omim: 602923](#) Human

[SwissProt: Q3MHL3](#) Cow

[SwissProt: Q09028](#) Human

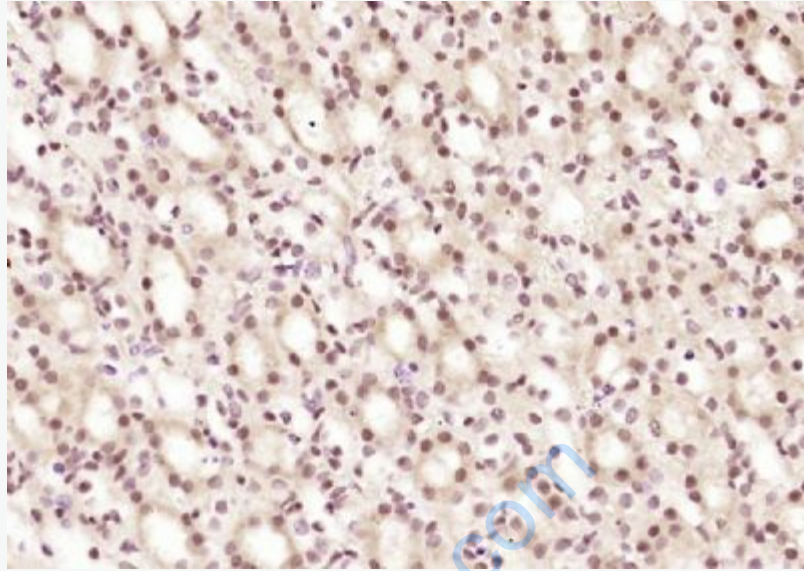
[SwissProt: Q60972](#) Mouse

[Unigene: 16003](#) Human

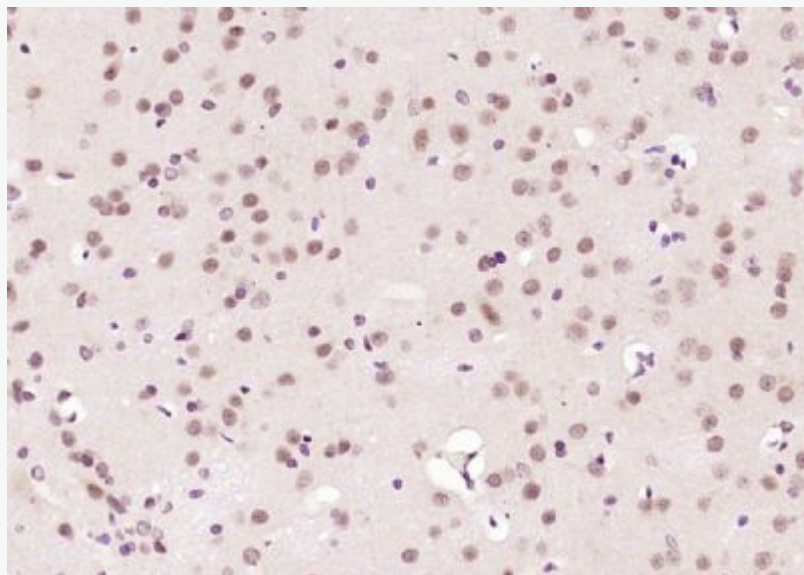
[Unigene: 12145](#) Mouse

**Important Note:**

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



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RbAp48) Polyclonal Antibody, Unconjugated (SL6130R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RbAp48) Polyclonal Antibody, Unconjugated (SL6130R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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