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#4522

## RBAP46 Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	48	Rabbit	#Q16576	5931

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

RBAP46 Antibody detects endogenous levels of total RBAP46 protein. The antibody does not cross-react with RBAP48 protein.

### Species predicted to react based on 100% sequence homology

Bovine

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of the human RBAP46 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

Retinoblastoma-associated proteins 46 and 48 (RBAP46 and RBAP48; also known as RBBP7 and RBBP4) were first characterized in human cells as proteins that bind to the retinoblastoma (Rb) tumor suppressor protein (1). Since then, these proteins have been shown to be components of many protein complexes involved in chromatin regulation, including the chromatin assembly factor 1 (CAF-1) complex and type B histone acetyltransferase complex HAT1, both of which function in chromatin assembly during DNA replication (2,3). RBAP46 and RBAP48 are also found in the nucleosome remodeling factor complex NURF, the nucleosome remodeling and histone de-acetylation complex NuRD, and the Sin3/HDAC histone de-acetylation complex (4-7). More recently, RBAP46 and RBAP48 were identified as components of the polycomb repressor complex PRC2, which also contains EED and Ezh2 (8). RBAP46 and RBAP48 bind to the histone fold region of histone H4 and are believed to target these chromatin remodeling, histone acetylation, and histone de-acetylation complexes to their histone substrates (3).

### Background References

1. Qian, Y.W. et al. (1993) *Nature* 364, 648-52.
2. Verreault, A. et al. (1996) *Cell* 87, 95-104.
3. Verreault, A. et al. (1998) *Curr Biol* 8, 96-108.
4. Barak, O. et al. (2003) *EMBO J* 22, 6089-100.
5. Zhang, Y. et al. (1999) *Genes Dev* 13, 1924-35.
6. Zhang, Y. et al. (1997) *Cell* 89, 357-64.
7. Kuzmichev, A. et al. (2002) *Genes Dev* 16, 2893-905.
8. Cao, R. et al. (2002) *Science* 298, 1039-43.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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