



Rabbit Anti-RBBP5 antibody

SL6016R

Product Name:	RBBP5
Chinese Name:	视网膜母细胞瘤Binding protein5抗体
Alias:	RBBP 5; RBQ 3; RBQ3; Retinoblastoma binding protein 5; Retinoblastoma binding protein RBQ3; Retinoblastoma binding protein5; SWD1; SWD1, Set1c WD40 repeat protein, homolog.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,
Applications:	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.
Molecular weight:	59kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RBBP5:131-230/538
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	RbBP5, retinoblastoma binding protein 5, belongs to a highly conserved subfamily of WD proteins and contains 6 WD repeats. It binds preferentially to underphosphorylated retinoblastoma protein, which is involved in the control of cell proliferation. RbBP5 is a component of the SET1 complex and of MLL containing complexes. RbBP5 is phosphorylated in response to DNA damage, probably by ATM/ATR.

Function:

As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation.

Subunit:

Component of the SET1 complex, at least composed of the catalytic subunit (SETD1A or SETD1B), WDR5, WDR82, RBBP5, ASH2L/ASH2, CXXC1/CFP1, HCFC1 and DPY30. Core component of several methyltransferase-containing complexes including MLL1/MLL, MLL2/3 (also named ASCOM complex) and MLL4/WBP7. Each complex is at least composed of ASH2L, RBBP5, WDR5, DPY30, one or more specific histone methyltransferases (MLL, MLL2/ALR, MLL3 and MLL4/WBP7), and the facultative components C16orf53/PA1, C17orf49, CHD8, E2F6, HCFC1, HCFC2, HSP70, INO80C, KDM6A, KANSL1, LAS1L, MAX, MCRS1, MEN1, MGA, MYST1/MOF, NCOA6, PAXIP1/PTIP, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9, TEX10 and alpha- and beta-tubulin. Interacts with WDR5 and ASH2L; the interaction is direct. Interacts with WDR82 and SETD1A.

Subcellular Location:

Nucleus.

Tissue Specificity:

Ubiquitously expressed.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Contains 6 WD repeats.

SWISS:

Q15291

Gene ID:

5929

Database links:

[Entrez Gene: 5929](#)Human

[Entrez Gene: 213464](#)Mouse

[Omim: 600697](#)Human

[SwissProt: Q15291](#)Human

[SwissProt: Q8BX09](#)Mouse

[Unigene: 519230](#)Human

[Unigene: 132868](#)Mouse

Important Note:

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

视网膜母细胞瘤Binding protein5抗体

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