

Rabbit Anti-RBBP5 antibody

SL6016R

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| 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. |
| Research Area | Tumour immunology Chromatin and nuclear signals |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | (predicted: Human, Mouse, Rat, Chicken, Dog, Horse, Rabbit,) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000 (Paraffin sections need antigen repair) |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Theoretical molecular weight | 59kDa |
| Cellular localization | The nucleus |
| Form | Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from human RBBP5: 131-230/538 |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Buffer Solution | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| Storage | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| Attention | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| 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, MCRC1, 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

[Omid: 600697](#) Human

[SwissProt: Q15291](#) Human

[SwissProt: Q8BX09](#) Mouse

[Unigene: 519230](#) Human

[Unigene: 132868](#) Mouse

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