

RbBP5 Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11559**Specification**

RbBP5 Antibody - Product Information

Application	WB, IP
Primary Accession	Q15291
Other Accession	NP_005048.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59153

RbBP5 Antibody - Additional Information**Gene ID** 5929**Other Names**

RbBP5, Retinoblastoma binding protein 5; RBQ3, Retinoblastoma binding protein RBQ3

Target/Specificity

RbBP5

Formulation

100 µl affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

RbBP5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RbBP5 Antibody - Protein Information**Name** RBBP5**Synonyms** RBQ3**Function**

In embryonic stem (ES) cells, plays a crucial role in the differentiation potential, particularly along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci, including that mediated by retinoic acid (By similarity). Does not affect ES cell self-renewal

(By similarity). Component or associated component of some histone methyltransferase complexes which regulates transcription through recruitment of those complexes to gene promoters (PubMed:19131338). As part of the MLL1/MLL complex, involved in mono-, di- and trimethylation at 'Lys-4' of histone H3 (PubMed:19556245). Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:19556245). In association with ASH2L and WDR5, stimulates the histone methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B (PubMed:22266653, PubMed:21220120).

Cellular Location

Nucleus.

Tissue Location

Ubiquitously expressed.

RbBP5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RbBP5 Antibody - Images**RbBP5 Antibody - Background**

Retinoblastoma binding protein 5 (RbBP5) is a subunit of a human Set1-like histone methyltransferase (HMT) complex. The Set-1 like complexes are responsible for mono-, di-, and tri-methylation of histone H3 K4. RbBP5 associates with a multitude of proteins in a number of Set1-like complexes which include various combinations of MLL, MLL2, MLL3, MLL4, ASH2L, WDR5, hDPY-30, hSwd2, CXXC1, HCF1, Menin, PTIP, PA1, NCOA6, and UTX. RbBP5 is also one of many proteins that bind the Retinoblastoma tumor suppressor protein, pRb.