

# RBBP5 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20943c

## Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">Q15291</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB51371
<b>Calculated MW</b>	59153

## Additional Information

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<b>Gene ID</b>	5929
<b>Other Names</b>	Retinoblastoma-binding protein 5, RBBP-5, Retinoblastoma-binding protein RBQ-3, RBBP5, RBQ3
<b>Target/Specificity</b>	This RBBP5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 451-485 amino acids from the C-terminal region of human RBBP5.
<b>Dilution</b>	WB~~1:1000 IF~~1:25 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	RBBP5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RBBP5
<b>Synonyms</b>	RBQ3
<b>Function</b>	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:[21220120](#), PubMed:[22266653](#)).

<b>Cellular Location</b>	Nucleus.
<b>Tissue Location</b>	Ubiquitously expressed.

## Background

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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). As part of the MLL1/MLL complex, involved in mono-, di- and trimethylation at 'Lys-4' of histone H3. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation.

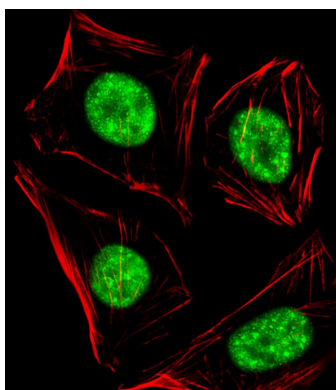
## References

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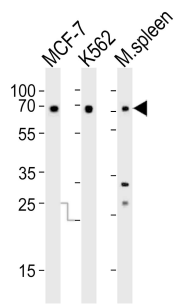
## Images

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Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized U-2 OS (Human osteosarcoma cell line) cells labeling RBBP5 with AP20943c at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/400 dilution (green). Confocal image showing nuclear staining on U-2 OS cell line. Cytoplasmic actin is detected with Alexa Fluor® 555 conjugated with Phalloidin (OB16636430) at 1/100 dilution (red).

Western blot analysis of lysates from MCF-7, K562 cell line and mouse spleen tissue(from left to right), using RBBP5 Antibody (C-term)(Cat. #AP20943c). AP20943c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.