

RBBP5 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20943c

Specification

RBBP5 Antibody (C-term) - Product Information

Application	IF, WB,E
Primary Accession	O15291
Other Accession	O8BX09
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59153

RBBP5 Antibody (C-term) - Additional Information

Gene ID 5929

Other Names

Retinoblastoma-binding protein 5, RBBP-5, Retinoblastoma-binding protein RBQ-3, RBBP5, RBQ3

Target/Specificity

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.

Dilution

IF~~1:25

WB~~1:1000

Format

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.

Storage

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.

Precautions

RBBP5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RBBP5 Antibody (C-term) - 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:[21220120](#), PubMed:[22266653](#)).

Cellular Location

Nucleus.

Tissue Location

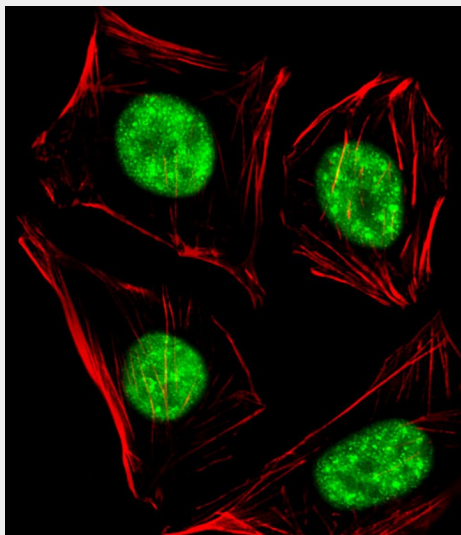
Ubiquitously expressed.

RBBP5 Antibody (C-term) - Protocols

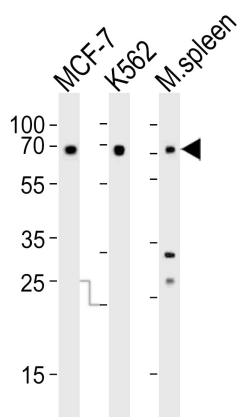
Provided below are standard protocols that you may find useful for product applications.

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

RBBP5 Antibody (C-term) - Images



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.

RBBP5 Antibody (C-term) - Background

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.

RBBP5 Antibody (C-term) - References

- Saijo M., et al. *Genomics* 27:511-519(1995).
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).
- Gregory S.G., et al. *Nature* 441:315-321(2006).
- Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Hughes C.M., et al. *Mol. Cell* 13:587-597(2004).