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RBM14 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11552b

Specification

RBM14 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q96PK6
Other Accession	Q8C2Q3, Q5EA36, NP_006319.1
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**69492**
Antigen Region	**563-594**

RBM14 Antibody (C-term) - Additional Information

Gene ID 100526737;10432

Other Names
RNA-binding protein 14, Paraspeckle protein 2, PSP2, RNA-binding motif protein 14, RRM-containing coactivator activator/modulator, Synaptotagmin-interacting protein, SYT-interacting protein, RBM14, SIP

Target/Specificity
This RBM14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 563-594 amino acids from the C-terminal region of human RBM14.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50
E~~Use at an assay dependent concentration.

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
RBM14 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RBM14 Antibody (C-term) - Protein Information

Name RBM14

Synonyms SIP

Function Isoform 1 may function as a nuclear receptor coactivator, enhancing transcription through other coactivators such as NCOA6 and CITED1. Isoform 2, functions as a transcriptional repressor, modulating transcriptional activities of coactivators including isoform 1, NCOA6 and CITED1 (PubMed:11443112). Regulates centriole biogenesis by suppressing the formation of aberrant centriolar protein complexes in the cytoplasm and thus preserving mitotic spindle integrity. Prevents the formation of the STIL-CPAP complex (which can induce the formation of aberrant centriolar protein complexes) by interfering with the interaction of STIL with CPAP (PubMed:25385835). Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway (PubMed:28712728). Also involved in the regulation of pre-mRNA alternative splicing (PubMed:37548402).

Cellular Location
Nucleus. Nucleus, nucleolus. Cytoplasm. Note=In punctate subnuclear structures often located adjacent to splicing speckles, called paraspeckles (PubMed:11790299). Cytoplasmic localization is crucial for its function in suppressing the formation of aberrant centriolar protein complexes (PubMed:25385835).

Tissue Location
Expressed in all tissues tested, including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood lymphocytes

RBM14 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 Cytomety
- Cell Culture

RBM14 Antibody (C-term) - Images

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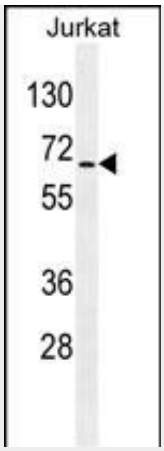
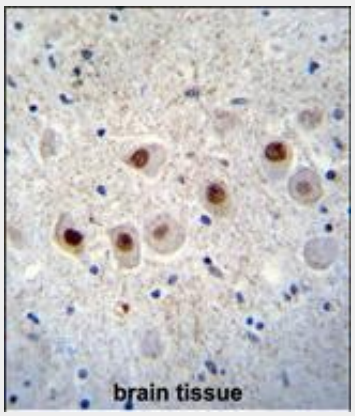
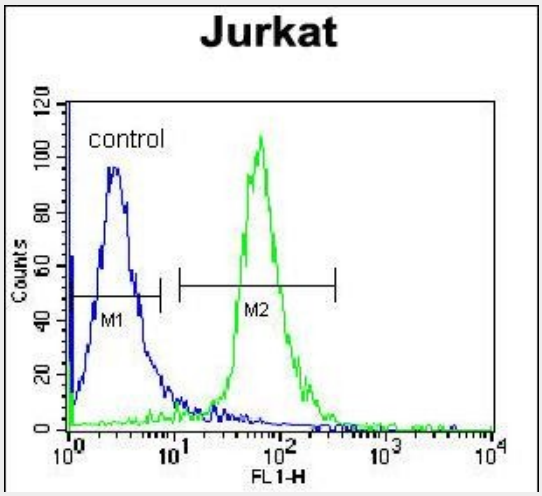


RBM14 Antibody (C-term) (Cat. #AP11552b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the RBM14 antibody detected the RBM14 protein (arrow).



RBM14 Antibody (C-term) (Cat. #AP11552b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RBM14 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



RBM14 Antibody (C-term) (Cat. #AP11552b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

RBM14 Antibody (C-term) - Background

Isoform 1 may function as a nuclear receptor coactivator, enhancing transcription through other coactivators such as NCOA6 and CITED1. Isoform 2, functions as a transcriptional repressor, modulating transcriptional activities of coactivators including isoform 1, NCOA6 and CITED1.

RBM14 Antibody (C-term) - References

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