10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RBM14 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2957c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96PK6
Other Accession	Q8C2Q3, Q5EA36
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17295
Calculated MW	69492
Antigen Region	193-223

Additional Information

Gene ID	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 193-223 amino acids from the Central region of human RBM14.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

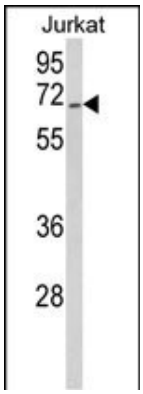
Background

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.

References

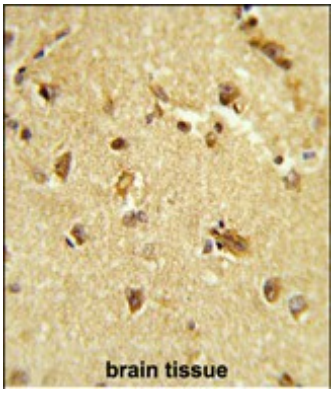
Andersen,J.S., et.al., Curr. Biol. 12 (1), 1-11 (2002)
Brett,D., et.al., Hum. Mol. Genet. 6 (9), 1559-1564 (1997)

Images

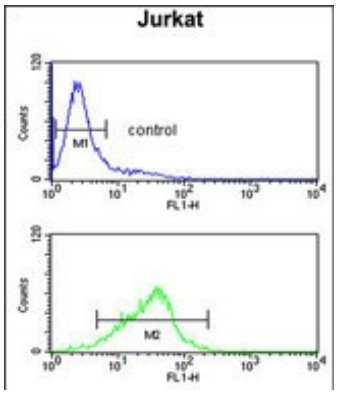


Western blot analysis of RBM14 Antibody (Center) (Cat. #AP2957c) in Jurkat cell line lysates (35ug/lane). RBM14 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded brain tissue reacted with RBM14 Antibody (Center), which was



peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



RBM14 Antibody (Center) (Cat. #AP2957c) flow cytometric analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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