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RBM22 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14906c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NW64
Other Accession	Q7ZXB5, Q4V7D7, Q8BHS3, Q4R4J1, Q6NZZ9, Q5ZM16, Q3B7L8, NP_060517.1
Reactivity	Human
Predicted	Bovine, Chicken, Zebrafish, Monkey, Mouse, Rat, Xenopus, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35239
Calculated MW	46896
Antigen Region	165-193

Additional Information

Gene ID	55696
Other Names	Pre-mRNA-splicing factor RBM22, RNA-binding motif protein 22, Zinc finger CCCH domain-containing protein 16, RBM22, ZC3H16
Target/Specificity	This RBM22 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-193 amino acids from the Central region of human RBM22.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	RBM22 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RBM22
Synonyms	ZC3H16

Function	Required for pre-mRNA splicing as component of the activated spliceosome (PubMed:28076346, PubMed:28502770, PubMed:29301961, PubMed:29360106, PubMed:29361316, PubMed:30705154). Involved in the first step of pre-mRNA splicing. Binds directly to the internal stem- loop (ISL) domain of the U6 snRNA and to the pre-mRNA intron near the 5' splice site during the activation and catalytic phases of the spliceosome cycle. Involved in both translocations of the nuclear SLU7 to the cytoplasm and the cytosolic calcium-binding protein PDCD6 to the nucleus upon cellular stress responses.
Cellular Location	Nucleus. Cytoplasm Note=Nearly exclusively nuclear. Translocated from the nucleus to the cytoplasm after heat shock cell treatment. May be shuttling between the nucleus and the cytosol.

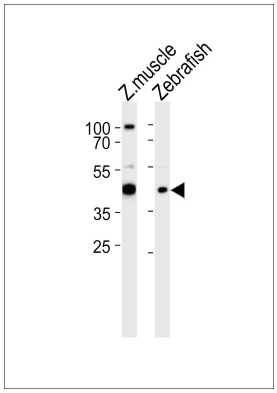
Background

This gene encodes an RNA binding protein. The encoded protein may play a role in cell division and may be involved in pre-mRNA splicing. Related pseudogenes exist on chromosomes 6, 7, 9, 13, 16, 18, and X.

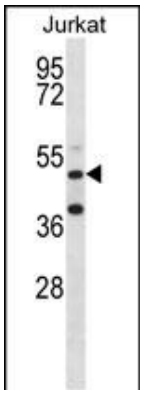
References

Krebs, J. Biochim. Biophys. Acta 1793(6):979-984(2009)
Satoh, J., et al. Neuropathol. Appl. Neurobiol. 35(1):16-35(2009)
He, F., et al. Genet. Mol. Res. 8(4):1466-1473(2009)
Montaville, P., et al. Biochim. Biophys. Acta 1763(11):1335-1343(2006)
Kittler, R., et al. Nature 432(7020):1036-1040(2004)

Images

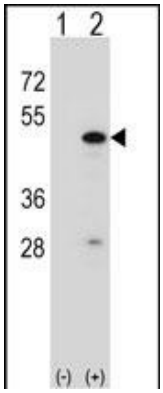


Western blot analysis of lysates from zebra fish muscle, Zebrafish tissue lysate (from left to right), using RBM22 Antibody (Center)(Cat. #AP14906c). AP14906c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

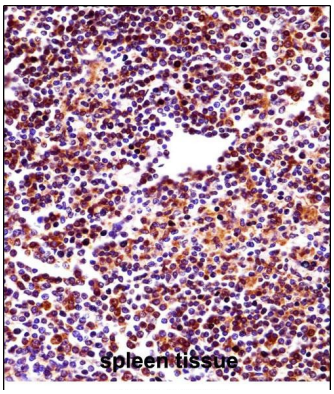


RBM22 Antibody (Center) (Cat. #AP14906c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the RBM22 antibody detected the RBM22 protein (arrow).

Western blot analysis of RBM22 (arrow) using rabbit polyclonal RBM22 Antibody (Center) (Cat. #AP14906c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1)



or transiently transfected (Lane 2) with the RBM22 gene.



RBM22 Antibody (Center) (AP14906c)immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RBM22 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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