

Rabbit RBM4 Polyclonal Antibody | anti-RBM4 antibody

RBM4 Antibody

CATALOG # AAA323049	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

RBM4; Polyclonal Antibody; RBM4 Antibody; dkfzp547k0918; hLark; lark; Lark homolog; lark homologue; mgc75138; rbm4 lark; RBM4_HUMAN; RNA binding motif 4; RNA binding motif 4a; RNA-binding motif protein 4; RNA-binding motif protein 4a; RNA-binding protein 4; anti-RBM4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RBM4 antibody detects endogenous levels of RBM4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	143
Applicable Applications for anti-RBM4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RBM4.
Subcellular Location	Nucleus. Nucleus > Nucleolus. Nucleus Speckle. Cytoplasm. Cytoplasmic Granule. Undergoes continuous nucleocytoplasmic shuttling. Upon nuclear import colocalizes with SR proteins in nuclear speckles. Arsenite stress-induced phosphorylation increases its subcellular relocalization from the nucleus to the cytoplasm and to cytoplasmic stress granules (SG) via a p38 MAPK signaling pathway. Primarily localized in nucleus and nucleoli under cell growth conditions and accumulated in the cytoplasm and cytoplasm perinuclear granules upon muscle cell differentiation.
Tissue Specificity	Expressed in the cerebellum. Expressed in neurons and glial cells, including layers II neurons in the frontal cortex and CA1 pyramidal neurons in the hippocampus. Expressed in heart, liver, pancreas, skeletal muscle, placenta, primary fibroblasts and peripheral blood monocytes (at protein level). Ubiquitously expressed. Highly expressed in heart, placenta and skeletal muscle. Weakly expressed in pancreas, kidney, liver, lung and brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (91%), Bovine (82%), Horse (91%), Sheep (82%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of human heart tissue, using RBM4 antibody.



IHC (Immunohistochemistry)
AAA323049 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-RBM4 antibody	Function: RNA-binding factor involved in multiple aspects of cellular processes like alternative splicing of pre-mRNA and translation regulation. Modulates alternative 5'-splice site and exon selection. Acts as a muscle cell differentiation-promoting factor. Activates exon skipping of the PTB pre-mRNA during muscle cell differentiation. Antagonizes the activity of the splicing factor PTBP1 to modulate muscle cell-specific exon selection of alpha tropomyosin. Binds to intronic pyrimidine-rich sequence of the TPM1 and MAPT pre-mRNAs. Required for the translational activation of PER1 mRNA in response to circadian clock. Binds directly to the 3'-UTR of the PER1 mRNA. Exerts a suppressive activity on Cap-dependent translation via binding to CU-rich responsive elements within the 3'UTR of mRNAs, a process increased under stress conditions or during myocytes differentiation. Recruits EIF4A1 to stimulate IRES-dependent translation initiation in respons to cellular stress. Associates to internal ribosome entry segment (IRES) in target mRNA species under stress conditions. Plays a role for miRNA-guided RNA cleavage and translation suppression by promoting association of AGO2-containing miRNPs with their cognate target mRNAs. Associates with miRNAs during muscle cell differentiation. Binds preferentially to 5'-CGCGCG[GCA]-3' motif in vitro. Subunit Structure: Interacts with TNPO3; the interaction mediates nuclear import of the protein and is disrupted by nuclear Ran bound to GTP. Interacts with EIF4G1 and WT1. Interacts with EIF4A1; the interaction is modulated under stress-induced conditions. Interacts with AGO1. Interacts with AGO2; the interaction occurs under both cell proliferation and differentiation conditions and in an RNA-and phosphorylation-independent manner. Interacts with DDX5; the interaction occurs in an RNA-independent manner. Post-translational Modifications: Phosphorylation on Ser-309 is induced upon cell muscle differentiation (By similarity). Phosphorylated. Phosphorylated in vitro on Ser-309 by SRPK1. Phosphorylation on Ser-309 is induced upon cell stress signaling, which alters its subcellular localization and may modulate its activity on IRES-mediated mRNA translation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	311771540
NCBI GeneID	5936
NCBI Accession #	NP_001185772.1
NCBI GenBank Nucleotide #	NM_001198843.1
UniProt Accession #	Q9BWF3; O02916; Q4VC48; Q6P1P2; Q8WU85; B3KUN0; B4E1U0; E7EQS3
Molecular Weight	Observed: 40 kDa Predicted: 41 kDa
NCBI Official Full Name	RNA-binding protein 4 isoform 2
NCBI Official Synonym Full Names	RNA binding motif protein 4
NCBI Official Symbol	RBM4
NCBI Official Synonym Symbols	LARK; RBM4A; ZCRB3A; ZCCHC21
NCBI Protein Information	RNA-binding protein 4
UniProt Protein Name	RNA-binding protein 4
UniProt Gene Name	RBM4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rbm4-antibody-immunohistochemistry-western-blot-elisa/323049>