

Rabbit anti-Human PUF60 Polyclonal Antibody | anti-PUF60 antibody

PUF60 Antibody (N-term)

CATALOG # AAA287109	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

PUF60; Polyclonal Antibody; PUF60 Antibody (N-term); Poly(U)-binding-splicing factor PUF60; 60 kDa poly(U)-binding-splicing factor; FUSE-binding protein-interacting repressor; FBP-interacting repressor; Ro-binding protein 1; RoBP1; Siah-binding protein 1; Siah-BP1; FIR; ROBPI; SIAHBP1; anti-PUF60 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PUF60 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-43 amino acids from the N-terminal region of human PUF60.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.35 (varies by lot)
Sequence Positions	15-43
Sequence Length	513
Applicable Applications for anti-PUF60 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
ID	RB34229
Antigen Source	Human
Function	DNA- and RNA-binding protein, involved in several nuclear processes such as pre-mRNA splicing, apoptosis and transcription regulation. In association with FUBP1 regulates MYC transcription at the P2 promoter through the core-TFIH basal transcription factor. Acts as a transcriptional repressor through the core-TFIH basal transcription factor. Represses FUBP1-induced transcriptional activation but not basal transcription. Decreases ERCC3 helicase activity. Does not repress TFIH-mediated transcription in xeroderma pigmentosum complementation group B (XPB) cells. Is also involved in pre-mRNA splicing. Promotes splicing of an intron with weak 3'-splice site and pyrimidine tract in a cooperative manner with U2AF2. Involved in apoptosis induction when overexpressed in HeLa cells. Isoform 6 failed to repress MYC transcription and inhibited FIR-induced apoptosis in colorectal cancer. Isoform 6 may contribute to tumor progression by enabling increased MYC expression and greater resistance to apoptosis in tumors than in normal cells. Modulates alternative splicing of several mRNAs. Binds to relaxed DNA of active promoter regions. Binds to the pyrimidine tract and 3'-splice site regions of pre-mRNA; binding is enhanced in presence of U2AF2. Binds to Y5 RNA in association with TROVE2. Binds to poly(U) RNA.
Cellular Location	Nucleus. Note=Colocalizes partially with TROVE2

Tissue Location	Isoform 2 is expressed in colonic epithelium and colorectal epithelium cancer (at protein level). Isoform 6 is expressed in colorectal epithelial cancer but below detection level in colonic epithelium. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
 PUF60 Antibody (N-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the PUF60 antibody detected the PUF60 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PUF60 antibody	The protein encoded by this gene is a Ro RNP-binding protein. It interacts with Ro RNPs and their interaction is thought to represent a gain of function for Ro RNPs. This protein also forms a ternary complex with far upstream element (FUSE) and FUSE-binding protein. It can repress a c-myc reporter via the FUSE. It is also known to target transcription factor IIH and inhibit activated transcription. This gene is implicated in the xeroderma pigmentosum disorder. There are two alternatively spliced transcript variants of this gene encoding different isoforms. There seems to be evidence of multiple polyadenylation sites for this gene.
References	Hsiao, H.H., et al. Biochemistry 49(22):4620-4634(2010) Corsini, L., et al. J. Biol. Chem. 284(1):630-639(2009) Gao, J., et al. Genomics 91(4):347-355(2008) Hastings, M.L., et al. PLoS ONE 2 (6), E538 (2007) : Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	209862867
NCBI GeneID	22827
NCBI Accession #	NP_001129505.1; NP_001258025.1; NP_001258026.1; NP_001258027.1; NP_001258028.1; NP_001258029.1; NP_055096.2; NP_510965.1
NCBI GenBank Nucleotide #	NM_001136033.2
UniProt Accession #	Q9UHX1; Q969E7; Q96D94; Q96H63; Q99628; Q9NZA0; Q9UJY7; A8K8K8
Molecular Weight	59875
NCBI Official Full Name	poly(U)-binding-splicing factor PUF60 isoform c
NCBI Official Synonym Full Names	poly-U binding splicing factor 60KDa
NCBI Official Symbol	PUF60
NCBI Official Synonym Symbols	FIR; VRJS; RoBPI; SIAHBP1
NCBI Protein Information	poly(U)-binding-splicing factor PUF60
UniProt Protein Name	Poly(U)-binding-splicing factor PUF60

UniProt Gene Name	PUF60
UniProt Synonym Gene Names	FIR; ROBPI; SIAHBP1; FBP-interacting repressor; RoBP1; Siah-BP1
UniProt Entry Name	PUF60_HUMAN

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/puf60-antibody-western-blot-elisa/287109>