


Product datasheet

Anti-PUF60 antibody ab97335

1 Image

Overview

Product name	Anti-PUF60 antibody
Description	Rabbit polyclonal to PUF60
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Cow, Zebrafish 
Immunogen	Recombinant protein fragment containing a sequence corresponding to a region within amino acids 346 and 533 of Human PUF60 isoform b (NP_055096)
Positive control	293T, H1299, and HeLaS3 cell lysates. HepG2, Molt-4, and Raji whole cell lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab97335** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 58 kDa.

Target

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-TFIID basal transcription factor. Acts as a transcriptional repressor through the core-TFIID basal transcription factor. Represses FUBP1-induced transcriptional activation but not basal transcription. Decreases ERCC3 helicase activity. Does not repress TFIID-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.

Tissue specificity

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.

Sequence similarities

Belongs to the RRM half pint family.
Contains 3 RRM (RNA recognition motif) domains.

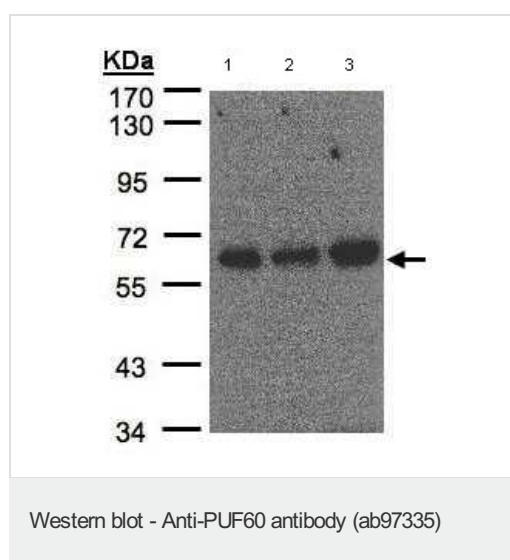
Domain

The third RNA recognition motif, called PUMP domain, is atypical and may rather mediate homodimerization and/or protein-protein interactions.

Cellular localization

Nucleus. Colocalizes partially with TROVE2.

Images



All lanes : Anti-PUF60 antibody (ab97335) at 1/500 dilution

Lane 1 : HepG2 whole cell lysate

Lane 2 : Molt-4 whole cell lysate

Lane 3 : Raji whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 58 kDa

7.5% SDS PAGE

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