

Product datasheet

Anti-PUF60/FIR antibody ab22819

2 References 3 Images

Overview

Product name	Anti-PUF60/FIR antibody
Description	Goat polyclonal to PUF60/FIR
Host species	Goat
Specificity	ab22819 recognises both reported human isoforms of PUF60/FIR
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Pig 
Immunogen	Synthetic peptide corresponding to Human PUF60/FIR aa 530-542 (C terminal). Sequence: YDQERFDNSDLA Run BLAST with Run BLAST with

Positive control

Purchase matching WB positive control:
Recombinant Human PUF60/FIR protein >

A431 lysate

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA

Purity	Immunogen affinity purified
Purification notes	ab22819 has been purified by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

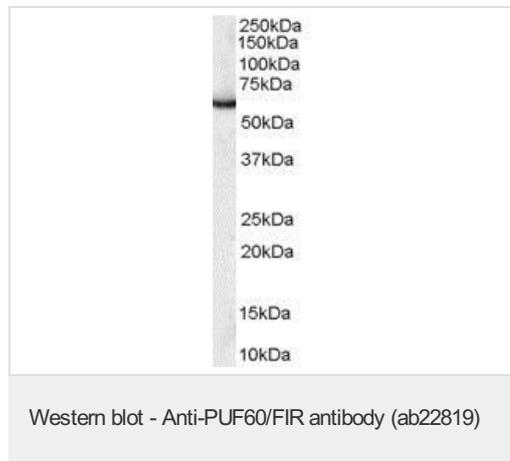
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab22819 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abbreviations	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 0.1 - 0.3 µg/ml. Predicted molecular weight: 58 kDa. 1 hour primary incubation is recommended for this product.

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.

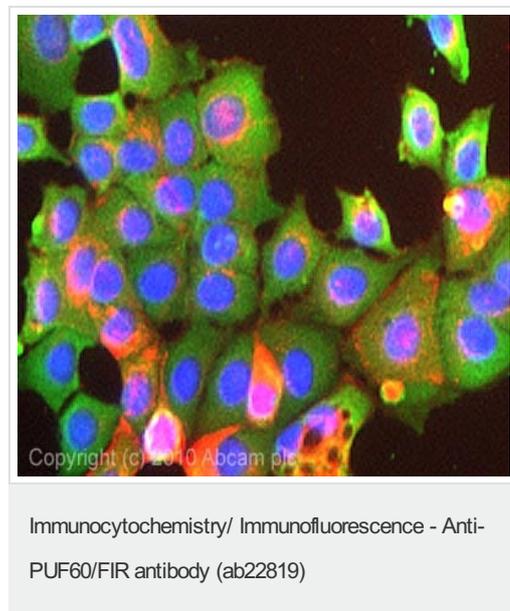
Images



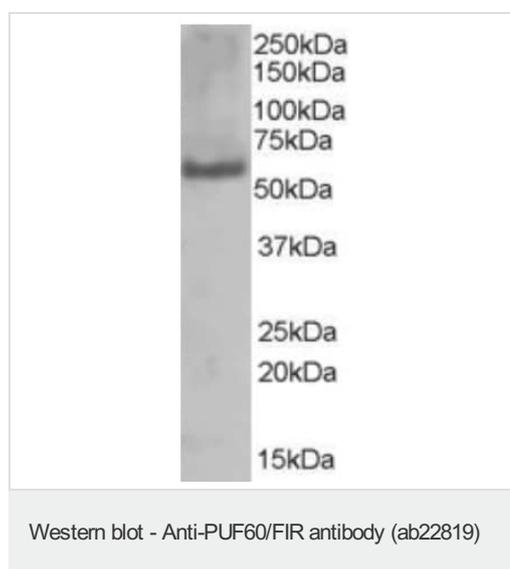
Anti-PUF60/FIR antibody (ab22819) at 0.1 $\mu\text{g/ml}$ + HEK293 cell lysate (35 μg in RIPA buffer)

Predicted band size: 58 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.



ICC/IF image of ab22819 stained MCF7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal donkey serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab22819, 5 $\mu\text{g/ml}$) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 donkey anti-goat IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 μM .



Anti-PUF60/FIR antibody (ab22819) at 1 $\mu\text{g/ml}$ + A431 lysate (35 μg protein in RIPA buffer).

Predicted band size: 58 kDa

Observed band size: 58 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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