

For Research Use Only

UPF1 Monoclonal antibody

Catalog Number: 66898-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number:

66898-1-Ig

GenBank Accession Number:

BC039817

Purification Method:

Protein G purification

Size:

150ul, Concentration: 1500 µg/ml by Nanodrop and 805 µg/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

5976

CloneNo.:

3B6B5

Source:

Mouse

UNIPROT ID:

Q92900

Recommended Dilutions:

WB 1:3000-1:10000

IHC 1:250-1:1000

IF 1:400-1:1600

Isotype:

IgG1

Full Name:

UPF1 regulator of nonsense transcripts homolog (yeast)

Calculated MW:

123 kDa

Immunogen Catalog Number:

AG28320

Observed MW:

123-130 kDa

Applications

Tested Applications:

WB, IF, FC, IHC, ELISA

Positive Controls:

WB: HEK-293 cells, mouse testis tissue, HeLa cells, HepG2 cells, Raji cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, mouse brain tissue

Cited Applications:

WB

IHC: human breast cancer tissue,

Species Specificity:

Human, Mouse, Rat

IF: HepG2 cells,

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Up-Frameshift Suppressor 1 Homolog (UPF1) is the central factor in nonsense-mediated mRNA decay (NMD) and is also directly involved in telomere homeostasis, DNA replication, histone mRNA degradation and staufen-mediated mRNA decay (PMID: 29382845). It is a potential modulator of MALAT1 and that UPF1/MALAT1 pathway could be a therapeutic target for gastric cancer (PMID: 28942451). The molecular mass of UPF1 is 123-130 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xinke Wang	30662328	Int J Med Sci	WB
Zhidan Hong	37977316	Gene	WB
Yanjie Tan	37683043	J Cell Physiol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

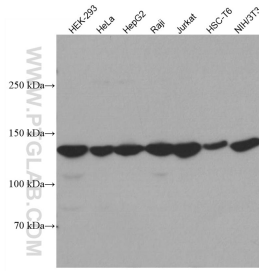
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

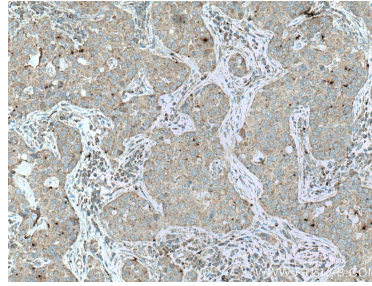
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

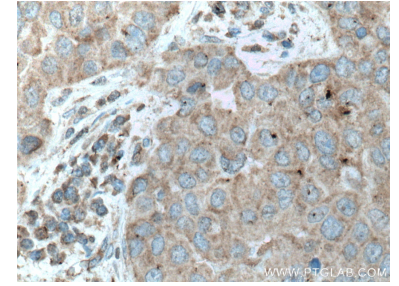
Selected Validation Data



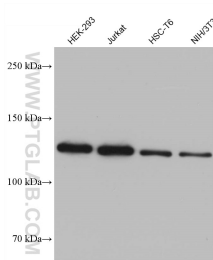
Various lysates were subjected to SDS PAGE followed by western blot with 66898-1-Ig (UPF1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



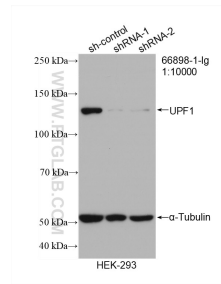
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66898-1-Ig (UPF1 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



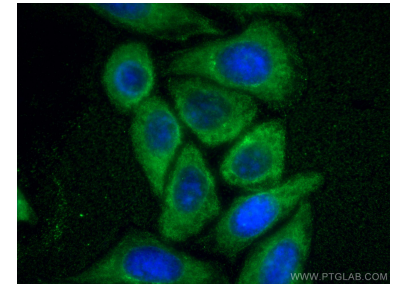
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66898-1-Ig (UPF1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



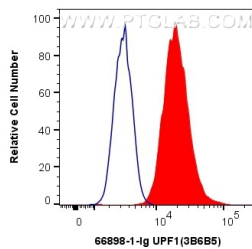
Various lysates were subjected to SDS PAGE followed by western blot with 66898-1-Ig (UPF1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of UPF1 antibody (66898-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-UPF1 transfected HEK-293 cells.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using UPF1 antibody (66898-1-Ig, Clone: 3B6B5) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human UPF1 (66898-1-Ig, Clone:3B6B5) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).