For Research Use Only

UPF1 Monoclonal antibody

Catalog Number:66898-1-Ig Featured Product 9 Publications

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Basic Information

Catalog Number:
66898-1-Ig

Concentration:
1500 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28320

GenBank Accession Number:
BC039817

GeneID (NCBI):
5976

UNIPROT ID:
Q92900

Full Name:
UPF1 regulator of nonsense transcripts homolog (yeast)

Calculated MW:
123 kDa

Observed MW:
123-130 kDa

Purification Method:
Protein G purification

CloneNo.:
3B6B5

Recommended Dilutions:
WB: 1:3000-1:10000
IHC: 1:250-1:1000
IF/ICC: 1:400-1:1600
FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, RIP

Species Specificity:
human, mouse, rat

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

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

IHC : human breast cancer tissue,

IF/ICC : HepG2 cells,

FC (Intra) : HepG2 cells,

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

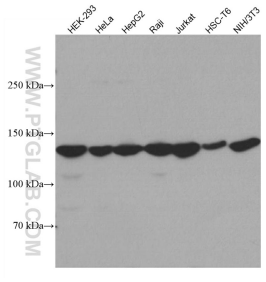
Author	Pubmed ID	Journal	Application
Xinke Wang	30662328	Int J Med Sci	WB
Benedikt V Hölbling	40349338	Cell Rep	WB
Hui Yuan	39848992	Sci Rep	WB,RIP

Storage

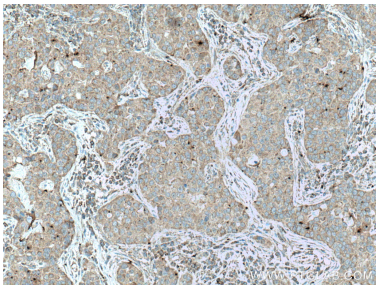
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

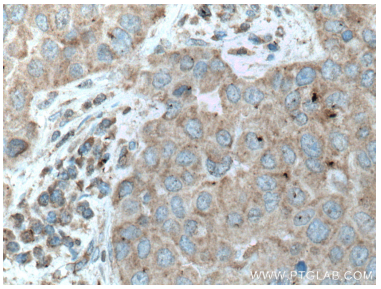
Selected Validation Data



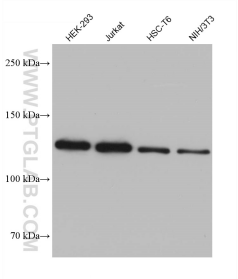
Various lysates were subjected to SDS PAGE followed by western blot with 66898-1-Ig (UPF1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



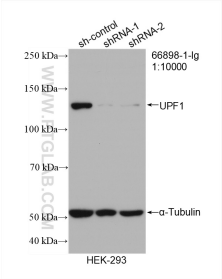
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66898-1-Ig (UPF1 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



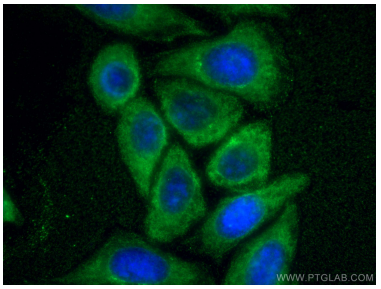
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66898-1-Ig (UPF1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



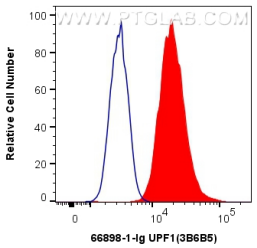
Various lysates were subjected to SDS PAGE followed by western blot with 66898-1-Ig (UPF1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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 Goat Anti-Mouse IgG(H+L).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human UPF1 (66898-1-Ig, Clone:3B6B5) and CoraLite®488-Conjugated 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).