

hUPF1 Rabbit mAb

Catalog No: #49938

Package Size: #49938-1 50ul #49938-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

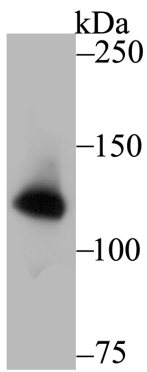
Description

Product Name	hUPF1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG38-44
Purification	ProA affinity purified
Applications	WB,ICC,IF,IP,IHC,FC
Species Reactivity	Hu, Ms
Immunogen Description	Recombinant protein within human hUPF1 aa 1-200.
Other Names	ATP dependent helicase RENT1 antibody ATP-dependent helicase RENT1 antibody Delta helicase antibody FLJ43809 antibody FLJ46894 antibody HUPF 1 antibody hUpf1 antibody KIAA0221 antibody Nonsense mRNA reducing factor 1 antibody NORF 1 antibody NORF1 antibody pNORF 1 antibody pNORF1 antibody Regulator of nonsense transcripts 1 antibody RENT 1 antibody RENT1 antibody RENT1_HUMAN antibody Smg 2 antibody Smg 2 homolog nonsense mediated mRNA decay factor antibody UP Frameshift 1 antibody Up frameshift mutation 1 homolog (S. cerevisiae) antibody Up frameshift mutation 1 homolog antibody Up frameshift suppressor 1 homolog antibody Up-frameshift suppressor 1 homolog antibody UPF 1 antibody UPF 1 regulator of nonsense transcripts homolog antibody upf1 antibody UPF1 regulator of nonsense transcripts homolog antibody UPF1 RNA helicase and ATPase antibody Yeast Upf1p homolog antibody
Accession No.	Swiss-Prot#:Q92900
Uniprot	Q92900
GeneID	5976;
Calculated MW	124 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

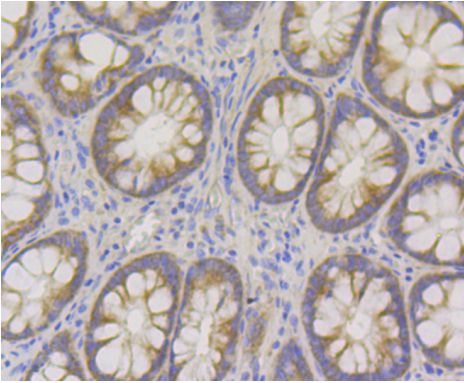
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200IP: 1:10-1:50FC: 1:50-1:100

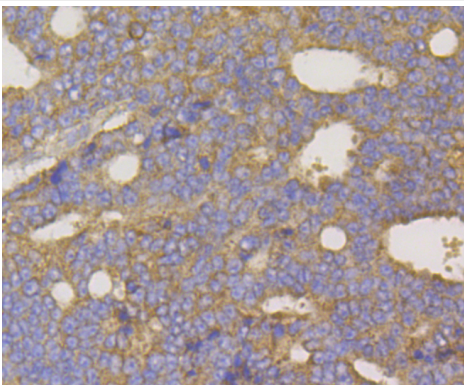
Images



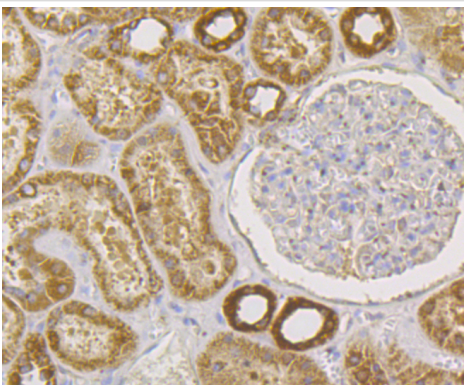
Western blot analysis of hUPF1 on PC-3M cell lysate using anti-hUPF1 antibody at 1/1,000 dilution.



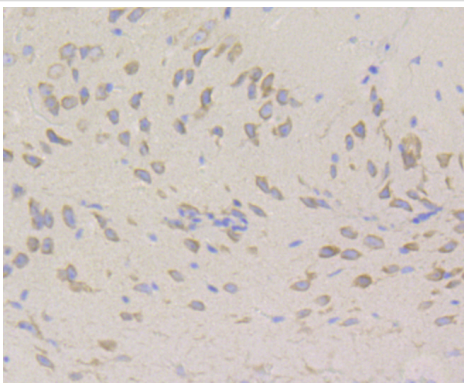
Immunohistochemical analysis of paraffin-embedded human colon tissue using anti- hUPF1 antibody. Counter stained with hematoxylin.



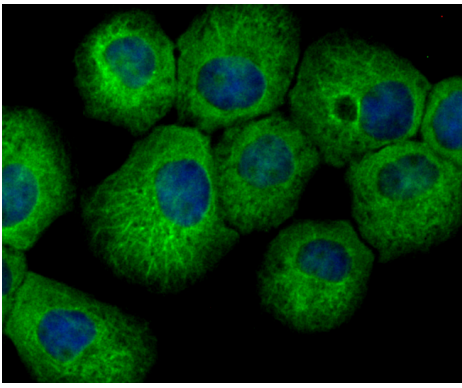
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-hUPF1 antibody. Counter stained with hematoxylin.



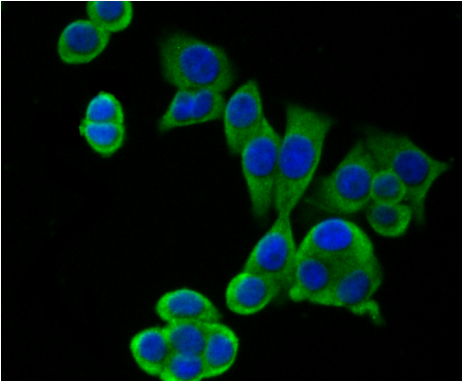
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti- hUPF1 antibody. Counter stained with hematoxylin.



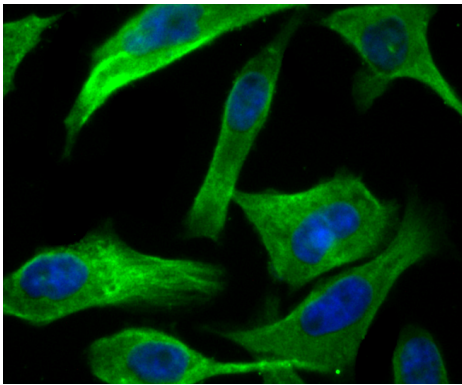
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti- hUPF1 antibody. Counter stained with hematoxylin.



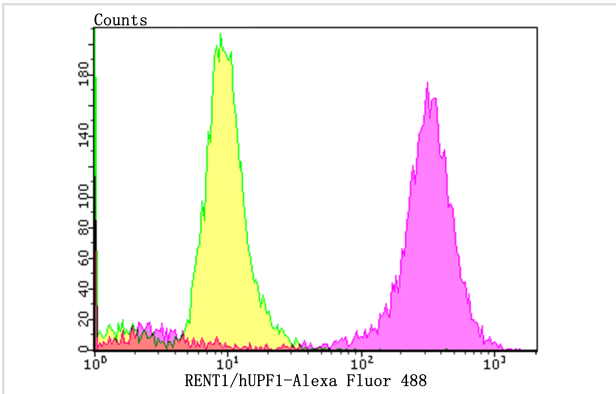
ICC staining hUPF1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining hUPF1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining hUPF1 in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of PC-3M cells with hUPF1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

In eukaryotes, it is essential to have the ability to detect and degrade transcripts that lack full coding potential. Nonsense-mediated RNA decay (NMD) protects the organism by avoiding the translation of truncated peptides with dominant negative or deleterious gain-of-function potential. Rent1, a mammalian ortholog of Upf1p, is essential for embryonic viability. Rent1 (also designated regulator of nonsense transcripts and HUupf1) contains an N-terminal zinc finger-like domain, NTPase domains and a region comprised of domains that define Rent1 as a superfamily group I helicase. Rent1 protein has nucleic-acid-dependent ATPase activity and 5' to 3' helicase activity. In addition, Rent1 is an RNA-binding protein whose activity is modulated by ATP and directly interacts with Rent2, which is a mammalian homolog of Upf2p. Two mammalian orthologs to Upf3p, Rent3a and Rent3b, are encoded by two separate genes. Rent3b (also known as Rent3X) is encoded by a X-linked gene and localizes primarily to the nucleus,

while Rent 1 and Rent 2 localize primarily in the cytoplasm. Specific Rent3 protein interactions with Y14 and spliced mRNA suggest Rent3a and Rent3b serve as a link between splicing and NMD in the cytoplasm.

References

Note: This product is for in vitro research use only