

Rabbit anti-Human hUPF2/RENT2/UPF2 Polyclonal Antibody | anti-UPF2 antibody

Anti-hUPF2/RENT2/UPF2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126325	Rabbit	Human	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

hUPF2/RENT2/UPF2; Polyclonal Antibody; Anti-hUPF2/RENT2/UPF2 Antibody Picoband; anti-UPF2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-UPF2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human hUPF2/RENT2/UPF2 recombinant protein (Position: K200-H651).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 5. IF analysis of HUPF2/RENT2/UPF2 using anti-HUPF2/RENT2/UPF2 antibody (AAA126325).HUPF2/RENT2/UPF2 was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-HUPF2/RENT2/UPF2 Antibody (AAA126325) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



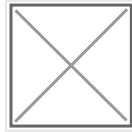
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of A549 cells using anti-HUPF2/RENT2/UPF2 antibody (AAA126325).Overlay histogram showing A549 cells stained with AAA126325 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HUPF2/RENT2/UPF2 Antibody (AAA126325, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



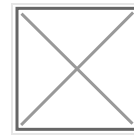
IHC (Immunohistochemisry)

Figure 3. IHC analysis of HUPF2/RENT2/UPF2 using anti-HUPF2/RENT2/UPF2 antibody (AAA126325).HUPF2/RENT2/UPF2 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-HUPF2/RENT2/UPF2 Antibody (AAA126325) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of HUPF2/RENT2/UPF2 using anti-HUPF2/RENT2/UPF2 antibody (AAA126325).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates,Lane 2: human Raji whole cell lysates,Lane 3: human THP-1 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HUPF2/RENT2/UPF2 antigen affinity purified polyclonal antibody (#AAA126325) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HUPF2/RENT2/UPF2 at approximately 170 kDa. The expected band size for HUPF2/RENT2/UPF2 is at 170 kDa.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of HUPF2/RENT2/UPF2 using anti-HUPF2/RENT2/UPF2 antibody (AAA126325).HUPF2/RENT2/UPF2 was detected in a paraffin-embedded section of human appendiceal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-HUPF2/RENT2/UPF2 Antibody (AAA126325) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-UPF2 antibody	Regulator of nonsense transcripts 2 is a protein that in humans is encoded by the UPF2 gene. This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located in the perinuclear area. It interacts with translation release factors and the proteins that are functional homologs of yeast Upf1p and Upf3p. Two splice variants have been found for this gene; both variants encode the same protein.
Product Categories/Family for anti-UPF2 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	11693132
NCBI GeneID	26019
NCBI Accession #	NP_056357
NCBI GenBank Nucleotide #	NM_015542
UniProt Accession #	Q9HAU5 ; Q14BM1 ; Q5W0J4 ; Q8N8U1 ; Q9H1J2 ; Q9NWL1 ; Q9P2D9 ; Q9Y4M9 ; A6NLJ5 ; D3DRS0
Molecular Weight	66,842 Da
NCBI Official Full Name	regulator of nonsense transcripts 2
NCBI Official Synonym Full Names	UPF2 regulator of nonsense transcripts homolog (yeast)
NCBI Official Symbol	UPF2

NCBI Official Synonym Symbols	HUPF2; RENT2; smg-3
NCBI Protein Information	regulator of nonsense transcripts 2; nonsense mRNA reducing factor 2; smg-3 homolog, nonsense mediated mRNA decay factor; up-frameshift suppressor 2 homolog; yeast Upf2p homolog
UniProt Protein Name	Regulator of nonsense transcripts 2
UniProt Gene Name	UPF2
UniProt Synonym Gene Names	KIAA1408; RENT2; hUpf2
UniProt Entry Name	RENT2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hupf2-rent2-upf2-antibody-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/126325>