Datasheet for ABIN7600567

anti-RENT2/UPF2 antibody (AA 200-651)

Go to Product page

Overview

Quantity:	100 µg
Target:	RENT2/UPF2 (UPF2)
Binding Specificity:	AA 200-651
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RENT2/UPF2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-hUPF2/RENT2/UPF2 Antibody Picoband®
Immunogen:	E.coli-derived human hUPF2/RENT2/UPF2 recombinant protein (Position: K200-H651).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-hUPF2/RENT2/UPF2 Antibody Picoband® (ABIN7600567). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	RENT2/UPF2 (UPF2)
Alternative Name:	UPF2 (UPF2 Products)
Background:	Synonyms: Protocadherin-15, PCDH15, USH1F Tissue Specificity: Expressed in brain, lung, kidney, spleen and testis. Found also in the inner and outer synaptic layers, and the nerve fiber layer in adult and fetal retinas. Found in the supporting cells, outer sulcus cells and spiral ganglion of fetal cochlea. Expressed in cytotoxic tumor-derived T- and NK-cell lines as well as biopsies of nasal NK/T-cell lymphomas. Not detected in normal or in vitro activated peripheral blood cells, CD4 or CD8 lymphocytes or NK cells. Isoform 3 is expressed in brain, heart, cerebellum and kidney. CD1 isoforms, such as isoform 1, have a limited pattern of expression and is detected in testis, retina and cochlea. CD2 isoforms, such as isoforms 4 and 5, are expressed in heart, kidney, thymus, spleen, testis, retina and cochlea. CD3 isoforms, such as isoform 6, are widely expressed. Background: 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.
Molecular Weight:	170 kDa
Gene ID:	26019

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Johnson, J. L., Stoica, L., Liu, Y., Zhu, P. J., Bhattacharya, A., Buffington, S. A., Huq, R., Eissa, N. T., Larsson, O., Porse, B. T., Domingo, D., Nawaz, U., and 19 others. Inhibition of Upf2-dependent nonsense-mediated decay leads to behavioral and neurophysiological abnormalities by activating the immune response. Neuron 104: 665-679, 2019. 2. Lykke-Andersen, J., Shu, M.-D.,

Application Details

	Steitz, J. A. Human Upf proteins target an mRNA for nonsense-mediated decay when bound downstream of a termination codon. Cell 103: 1121-1131, 2000. 3. Mendell, J. T., ap Rhys, C. M. J., Dietz, H. C. Separable roles for rent1/hUpf1 in altered splicing and decay of nonsense transcripts. Science 298: 419-371, 2002.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.