Rabbit PRPF31 Polyclonal Antibody | anti-PRPF31 antibody

Anti-PRPF31 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127161	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

PRPF31; Polyclonal Antibody; Anti-PRPF31 Antibody Picoband; Transcription factor E2F3; tumor necrosis factor receptor superfamily; member 18; Tumor necrosis factor receptor superfamily member 18; Glucocorticoid-induced TNFR-related protein; CD357; Tnfrsf18; Gitr; anti-PRPF31 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in thymus and in activated splenocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PRPF31 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PRPF31 recombinant protein (Position: K73-K488).
Subcellular Localization	Cell membrane. Single-pass type I membrane protein. Secreted.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.
Preparation and Storage	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

FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U937 cells using anti-PRPF31 antibody (AAA127161).Overlay histogram showing U937 cells stained with AAA127161 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PRPF31 Antibody (AAA127161, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)
Figure 2. IF analysis of PRPF31 using anti-PRPF31 antibody (AAA127161).PRPF31 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PRPF31 Antibody (AAA127161) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

WB (Western Blot)
Figure 1. Western blot analysis of PRPF31 using anti-PRPF31 antibody (AAA127161).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 Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human A549 whole cell lysates,Lane 4: human Caco-2 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat C6 whole cell lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse NIH/3T3 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-PRPF31 antigen affinity purified polyclonal antibody (#AAA127161) at 0.5ug/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 PRPF31 at approximately 60 kDa. The expected band size for PRPF31 is at 55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRPF31 antibody	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.
Product Categories/Family for anti-PRPF31 antibody	Primary Antibodies; Adaptive Immunity; Cancer; Cytokines; Growth Factors; Growth Factors/Hormones; Immunology; Innate Immunity; Signal Transduction
References	1. Al-Maghtheh, M., Vithana, E., Tarttelin, E., Jay, M., Evans, K., Moore, T., Bhattacharya, S., Inglehearn, C. F. Evidence for a major retinitis pigmentosa locus on 19q13.4 (RP11), and association with a unique bimodal expressivity phenotype. Am. J. Hum. Genet. 59: 864-871, 1996.2. Berson, E. L., Gouras, P., Gunkel, R. D., Myrianthopoulos, N. C. Dominant retinitis pigmentosa with reduced penetrance. Arch. Ophthal. 81: 226-234, 1969.3. Deery, E. C., Vithana, E. N., Newbold, R. J., Gallon, V. A., Bhattacharya, S. S., Warren, M. J., Hunt, D. M., Wilkie, S. E. Disease mechanism for retinitis pigmentosa (RP11) caused by mutations in the splicing factor gene PRPF31. Hum. Molec. Genet. 11: 3209-3219, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221136939
NCBI GeneID	26121
NCBI Accession #	NP_056444
NCBI GenBank Nucleotide #	NM_015629
UniProt Accession #	Q8WWY3; Q17RB4; Q8N7F9; Q9H271; Q9Y439; E7ESA8; F1T0A4
Molecular Weight	54,909 Da
NCBI Official Full Name	U4/U6 small nuclear ribonucleoprotein Prp31
NCBI Official Synonym Full Names	pre-mRNA processing factor 31
NCBI Official Symbol	PRPF31
NCBI Official Synonym Symbols	RP11; PRP31; SNRNP61; NY-BR-99
NCBI Protein Information	U4/U6 small nuclear ribonucleoprotein Prp31; PRP31 pre-mRNA processing factor 31 homolog; U4/U6 snRNP 61 kDa protein; hPrp31; pre-mRNA-processing factor 31; protein 61K; serologically defined breast cancer antigen NY-BR-99
UniProt Protein Name	U4/U6 small nuclear ribonucleoprotein Prp31
UniProt Gene Name	**PRPF31**

UniProt Synonym Gene Names	PRP31; Protein 61K; hPrp31
UniProt Entry Name	PRP31_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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