

Rabbit anti-Human PPAN Polyclonal Antibody | anti-PPAN antibody

Anti-PPAN Antibody Picoband

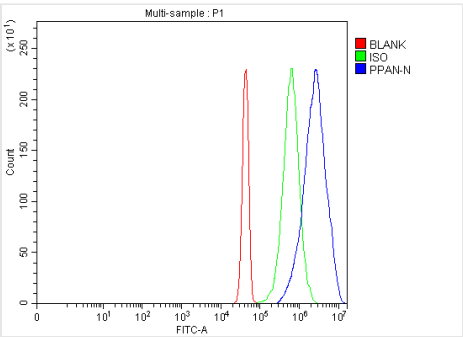
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127681	Rabbit	Human	Western Blot, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

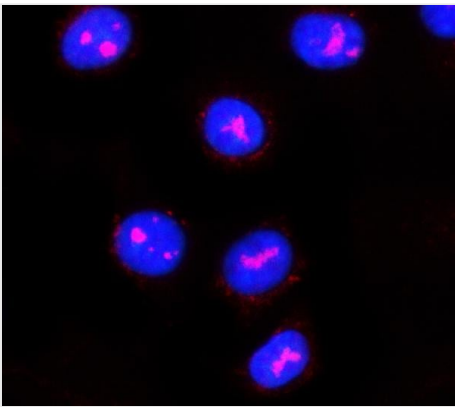
PPAN; Polyclonal Antibody; Anti-PPAN Antibody Picoband; Aquaporin-6; NOVA alternative splicing regulator 2; RNA-binding protein Nova-2; Astrocytic NOVA1-like RNA-binding protein; Neuro-oncological ventral antigen 2; NOVA2; ANOVA; NOVA3; anti-PPAN antibody

PRODUCT SPECIFICATIONS

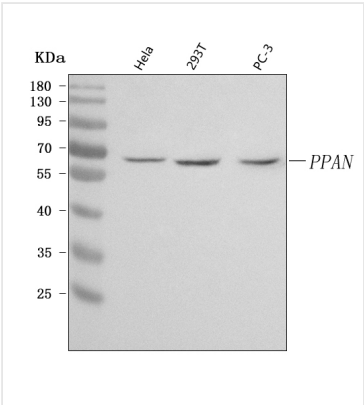
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain. Expression restricted to astrocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PPAN antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human PPAN recombinant protein (Position: R20-E288).
Subcellular Localization	Nucleus
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	May regulate RNA splicing or metabolism in a specific subset of developing neurons. Binds single strand RNA.
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.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of JK cells using anti-PPAN antibody (AAA127681).Overlay histogram showing JK cells stained with AAA127681 (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-PPAN Antibody (AAA127681, 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 PPAN using anti-PPAN antibody (AAA127681).PPAN 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-PPAN Antibody (AAA127681) 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. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of PPAN using anti-PPAN antibody (AAA127681).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 PC-3 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-PPAN antigen affinity purified polyclonal antibody (#AAA127681) 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 PPAN at approximately 65 kDa. The expected band size for PPAN is at 53 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPAN 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-PPAN antibody	Primary Antibodies; Channels; Metabolism; Plasma Membrane; Signal Transduction

References	1. Communi, D., Suarez-Huerta, N., Dussossoy, D., Savi, P, Boeynaems, J.-M. Cotranscription and intergenic splicing of human P2Y11 and SSF1 genes. J. Biol. Chem. 276: 16561-16566, 2001. 2. Suarez-Huerta, N., Boeynaems, J.-M., Communi, D. Cloning, genomic organization, and tissue distribution of human Ssf-1. Biochem. Biophys. Res. Commun. 275: 37-42, 2000. 3. Welch, P. J., Marcusson, E. G., Li, Q.-X., Beger, C., Kruger, M., Zhou, C., Leavitt, M., Wong-Staal, F., Barber, J. R. Identification and validation of a gene involved in anchorage-independent cell growth control using a library of randomized hairpin ribozymes. Genomics 66: 274-283, 2000.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21264056
NCBI GeneID	56342
UniProt Accession #	Q9NQ55; Q9BW97; Q9H170; C9J3F9
Molecular Weight	473
NCBI Official Full Name	Suppressor of SWI4 1 homolog
NCBI Official Synonym Full Names	peter pan homolog (Drosophila)
NCBI Official Symbol	PPAN
NCBI Official Synonym Symbols	SSF; SSF1; SSF2; BXDC3; SSF-1
NCBI Protein Information	suppressor of SWI4 1 homolog; suppressor of sterile four 1; homolog of S. cerevisiae SSF1; second-step splicing factor 1; brix domain-containing protein 3
UniProt Protein Name	Suppressor of SWI4 1 homolog
UniProt Gene Name	PPAN
UniProt Synonym Gene Names	BXDC3; SSF1; Ssf-1
UniProt Entry Name	SSF1_HUMAN

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