

Rabbit anti-Human, Mouse AP-B/RNPEP Polyclonal Antibody | anti-AP-B/RNPEP antibody

Anti-AP-B/RNPEP Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127668	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

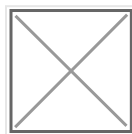
PRODUCT SYNONYMS

AP-B/RNPEP; Polyclonal Antibody; Anti-AP-B/RNPEP 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-AP-B/RNPEP antibody

PRODUCT SPECIFICATIONS

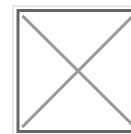
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain. Expression restricted to astrocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-AP-B/RNPEP antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human AP-B/RNPEP recombinant protein (Position: D66-K648).
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-AP-B/RNPEP antibody (AAA127668). Overlay histogram showing U251 cells stained with AAA127668 (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-AP-B/RNPEP Antibody (AAA127668, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HeLa cells using anti-AP-B/RNPEP antibody (AAA127668). Overlay histogram showing HeLa cells stained with AAA127668 (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-AP-B/RNPEP Antibody (AAA127668, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of AP-B/RNPEP using anti-AP-B/RNPEP antibody (AAA127668). 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 A549 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: mouse small intestine tissue lysates, Lane 6: mouse stomach tissue 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-AP-B/RNPEP antigen affinity purified polyclonal antibody (#AAA127668) at 0.25ug/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 AP-B/RNPEP at approximately 73 kDa. The expected band size for AP-B/RNPEP is at 73 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AP-B/RNPEP 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-AP-B/RNPEP antibody	Primary Antibodies ; Channels ; Metabolism ; Plasma Membrane ; Signal Transduction
References	1. Aurich-Costa, J., Cadel, S., Gouzy, C., Foulon, T., Cherif, D., Cohen, P. Assignment of the aminopeptidase B gene (RNPEP) to human chromosome 1 band q32 by in situ hybridization. Cytogenet. Cell Genet. 79: 143-144, 1997. 2. Cadel, S., Foulon, T., Viron, A., Balogh, A., Midol-Monnet, S., Noel, N., Cohen, P. Aminopeptidase B from the rat testis is a bifunctional enzyme structurally related to leukotriene-A4 hydrolase. Proc. Nat. Acad. Sci. 94: 2963-2968, 1997. 3. Cadel, S., Pierotti, A. R., Foulton, T., Creminon, C., Barre, N., Segretain, D., Cohen, P. Aminopeptidase-B in the rat testes: isolation, functional properties and cellular localization in the seminiferous tubules. Molec. Cell. Endocr. 110: 149-160, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20137480
NCBI GeneID	6051
UniProt Accession #	Q9H4A4 ; Q9BVM9 ; Q9H1D4 ; Q9NPT7
Molecular Weight	650
NCBI Official Full Name	Aminopeptidase B
NCBI Official Synonym Full Names	arginyl aminopeptidase (aminopeptidase B)
NCBI Official Symbol	RNPEP
NCBI Protein Information	aminopeptidase B; AP-B; arginine aminopeptidase
UniProt Protein Name	Aminopeptidase B
UniProt Gene Name	RNPEP
UniProt Synonym Gene Names	APB; AP-B
UniProt Entry Name	AMPB_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.

