

Rabbit anti-Human PNPLA6 Polyclonal Antibody | anti-PNPLA6 antibody

Anti-PNPLA6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127213	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PNPLA6; Polyclonal Antibody; Anti-PNPLA6 Antibody Picoband; Acid-sensing ion channel 2; carbonic anhydrase 12; Carbonic anhydrase 12; Carbonate dehydratase XII; Carbonic anhydrase XII; CA-XII; Tumor antigen HOM-RCC-3.1.3; CA12; anti-PNPLA6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	HighlyExpressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at much higher levels in the renal cell cancers than in surrounding normal kidney tissue. ModeratelyExpressed in pancreas, ovary and testis.Expressed in sweat glands and bronchiolar epithelium (PubMed:26911677).
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-PNPLA6 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PNPLA6 recombinant protein (Position: H15-E1296).
Subcellular Localization	Cell membrane, Membrane, Single-pass type I membrane protein
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	Reversible hydration of carbon dioxide.
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 SiHa cells using anti-PNPLA6 antibody (AAA127213).Overlay histogram showing SiHa cells stained with AAA127213 (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-PNPLA6 Antibody (AAA127213, 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 PNPLA6 using anti-PNPLA6 antibody (AAA127213).PNPLA6 was detected in an immunocytochemical section of U2OS 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-PNPLA6 Antibody (AAA127213) 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 PNPLA6 using anti-PNPLA6 antibody (AAA127213). 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 SH-SY5Y 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-PNPLA6 antigen affinity purified polyclonal antibody (#AAA127213) 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 PNPLA6 at approximately 150 kDa. The expected band size for PNPLA6 is at 150,151 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PNPLA6 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-PNPLA6 antibody	Primary Antibodies; Cancer; Cardiovascular; Energy Metabolism; Energy Transfer Pathways; Metabolic Signaling Pathways; Metabolism; Oxidative Stress; Pathways and Processes; Redox Metabolism; Signal Transduction
References	1. Bargal, R., Avidan, N., Ben-Asher, E., Olender, Z., Zeigler, M., Frumkin, A., Raas-Rothschild, A., Glusman, G., Lancet, D., Bach, G. Identification of the gene causing mucopolipidosis type IV. Nature Genet. 26: 118-123, 2000.2. Chalvon-Demersay, A., Tardieu, M., Crosnier, H., Benichou, J. J., Pienkowski, C., Rochiccioli, P., Labrune, B. Syndrome de Laurence-Moon (Bardet-Biedl) avec deficit en hormone de croissance. Arch. Franc. Pediat. 50: 859-862, 1993. 3. Hufnagel, R. B., Arno, G., Hein, N. D., Hersheson, J., Prasad, M., Anderson, Y., Krueger, L. A., Gregory, L. C., Stoetzel, C., Jaworek, T. J., Hull, S., Li, A., and 20 others. Neuropathy target esterase impairments cause Oliver-McFarlane and Laurence-Moon syndromes. J. Med. Genet. 52: 85-94, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	260656037
NCBI GeneID	10908
NCBI Accession #	NP_001159583.1
NCBI GenBank Nucleotide #	NM_001166111.1
UniProt Accession #	Q8IY17; O60859; Q86W58; Q9UG58; A6NGQ0; B4DFB9; J3KQS3
Molecular Weight	149,995 Da
NCBI Official Full Name	neuropathy target esterase isoform a
NCBI Official Synonym Full Names	patatin-like phospholipase domain containing 6
NCBI Official Symbol	PNPLA6
NCBI Official Synonym Symbols	NTE; sws; SPG39; NTEMND; iPLA2delta
NCBI Protein Information	neuropathy target esterase; patatin-like phospholipase domain-containing protein 6
UniProt Protein Name	Neuropathy target esterase
UniProt Gene Name	PNPLA6
UniProt Synonym Gene Names	NTE

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/pnpla6-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127213>