

Rabbit PNP Polyclonal Antibody | anti-PNP antibody

Anti-PNP Antibody Picoband

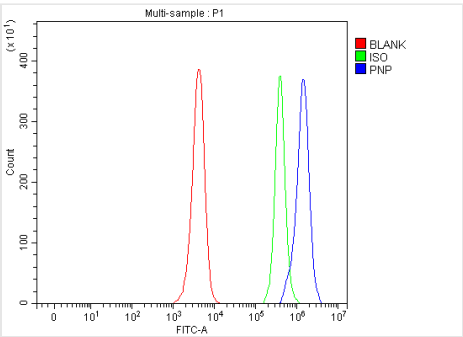
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127025	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

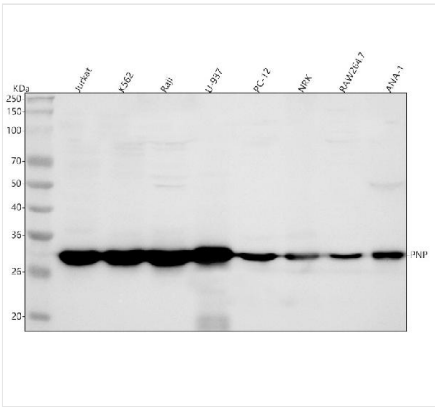
PNP; Polyclonal Antibody; Anti-PNP Antibody Picoband; anti-PNP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
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-PNP antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PNP recombinant protein (Position: Q44-Q273). Human PNP shares 86.5% and 87% amino acid (aa) sequence identity with mouse and rat PNP, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 2. Flow Cytometry analysis of JK cells using anti-PNP antibody (AAA127025). Overlay histogram showing JK cells stained with AAA127025 (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-PNP Antibody (AAA127025, 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.



WB (Western Blot)
Figure 1. Western blot analysis of PNP using anti-PNP antibody (AAA127025). 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 Jurkat whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: human U-937 whole cell lysates, Lane 5: rat PC-12 whole cell lysates, Lane 6: rat NRK whole cell lysates, Lane 7: mouse RAW264.7 whole cell lysates, Lane 8: mouse ANA-1 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-PNP antigen affinity purified polyclonal antibody (#AAA127025) 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 PNP at approximately 32 kDa. The expected band size for PNP is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PNP 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-PNP antibody	Primary Antibodies
References	1. Williams, S. R., Goddard, J. M., Martin, D. W., Jr. Human purine nucleoside phosphorylase cDNA sequence and genomic clone characterization. Nucleic Acids Res. 12: 5779-5787, 1984. 2. Frecker, M., Dallaire, L., Young, S. R., Chen, G. C. C., Simpson, N. E. Confirmation of regional assignment of nucleoside phosphorylase (NP) on chromosome 14 by gene dosage studies. Hum. Genet. 45: 167-173, 1978. 3. Markert, M. L., Finkel, B. D., McLaughlin, T. M., Watson, T. J., Collard, H. R., McMahon, C. P., Andrews, L. G., Barrett, M. J., Ward, F. E. Mutations in purine nucleoside phosphorylase deficiency. Hum. Mutat. 9: 118-121, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157168362
NCBI GeneID	4860
NCBI Accession #	NP_000261.2
NCBI GenBank Nucleotide #	NM_000270.3
UniProt Accession #	P00491; Q15160; Q5PZ03; B2R8S5; D3DS00
Molecular Weight	32,118 Da
NCBI Official Full Name	purine nucleoside phosphorylase
NCBI Official Synonym Full Names	purine nucleoside phosphorylase

NCBI Official Symbol	PNP
NCBI Official Synonym Symbols	NP; PUNP; PRO1837
NCBI Protein Information	purine nucleoside phosphorylase; inosine phosphorylase; inosine-guanosine phosphorylase; purine-nucleoside:orthophosphate ribosyltransferase
UniProt Protein Name	Purine nucleoside phosphorylase
UniProt Gene Name	PNP
UniProt Synonym Gene Names	NP; PNP
UniProt Entry Name	PNPH_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/np-antibody-flow-cytometry-western-blot-elisa/127025>