

Rabbit PNP Polyclonal Antibody | anti-PNP antibody

Anti-PNP Antibody

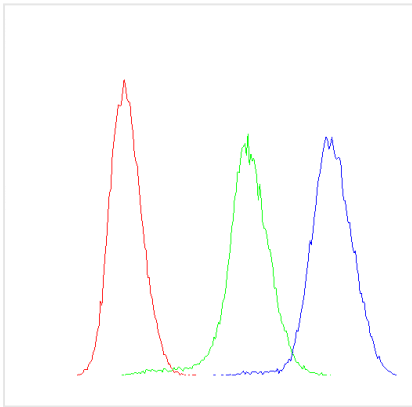
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11680	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

PNP; Polyclonal Antibody; Anti-PNP Antibody; Inosine phosphorylase; NP; Np1; Nucleoside phosphorylase; Pnp1; PRO1837; PUNP; P00491; Purine nucleoside phosphorylase; anti-PNP antibody

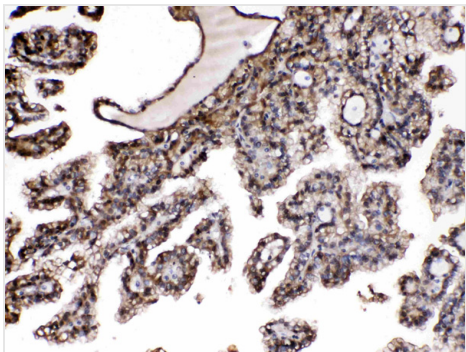
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	289
Applicable Applications for anti-PNP antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: 0.1-0.5ug/ml Immunohistochemistry(IHC) Paraffin: 0.5-1ug/ml
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PNP (161-189aa AMSDAYDRTMRQALSTWKQMGEQRELQE), different from the related mouse sequence by six amino acids, and from the related rat sequence by five amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



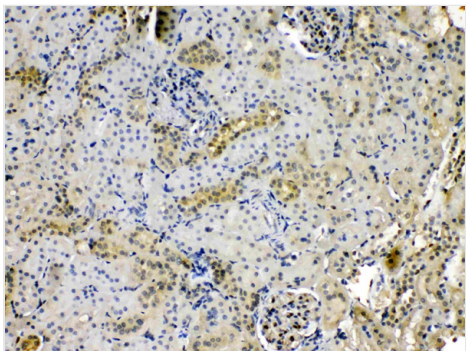
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of U251 cells using anti-PNP antibody (AAA11680).Overlay histogram showing U251 cells stained with AAA11680 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PNP Antibody (AAA11680,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) 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.



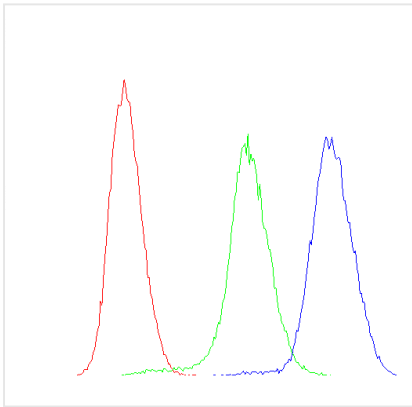
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PNP using anti-PNP antibody (AAA11680).PNP was detected in paraffin-embedded section of human renal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PNP Antibody (AAA11680) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



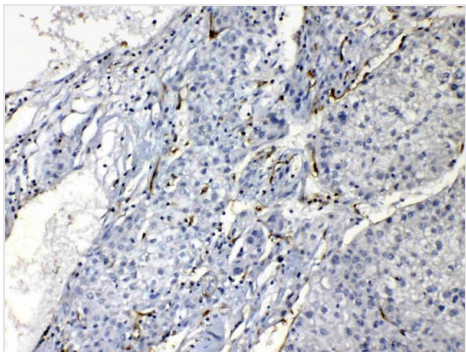
IHC (Immunohistochemistry)

Figure 3. IHC analysis of PNP using anti-PNP antibody (AAA11680).PNP was detected in paraffin-embedded section of rat kidney tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PNP Antibody (AAA11680) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



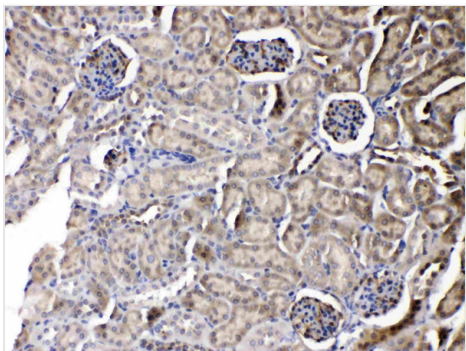
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U937 cells using anti-PNP antibody (AAA11680).Overlay histogram showing U937 cells stained with AAA11680 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PNP Antibody (AAA11680,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) 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.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of PNP using anti-PNP antibody (AAA11680).PNP was detected in paraffin-embedded section of human liver cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PNP Antibody (AAA11680) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PNP using anti-PNP antibody (AAA11680).PNP was detected in paraffin-embedded section of mouse kidney tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PNP Antibody (AAA11680) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PNP antibody	Rabbit IgG polyclonal antibody for Purine nucleoside phosphorylase(PNP) detection. Background: The PNP gene encodes purine nucleoside phosphorylase, an enzyme that catalyzes the reversible phosphorolysis of the purine nucleosides and deoxynucleosides inosine, guanosine, deoxyinosine, and deoxyguanosine. It is presented results from gene dosage studies consistent with assignment of the PNP locus to band 14q13. PNP is expressed in most tissues, with markedly greater expression in lymphoid tissues. Genetic deficiencies of PNP result in severely compromised T-lymphocyte function and neurologic dysfunction.
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
UniProt Protein Name	Purine nucleoside phosphorylase
UniProt Gene Name	PNP
UniProt Synonym Gene Names	NP; PNP

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pnp-antibody-western-blot-immunohistochemistry-elisa/11680>