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# PNP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5316

## Product Information

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| **Application** | WB |
| **Primary Accession** | P00491 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Calculated MW** | 32118 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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| **Gene ID** | 4860 |
| **Antigen Region** | 145-178 |
| **Other Names** | Purine nucleoside phosphorylase, PNP, Inosine phosphorylase, Inosine-guanosine phosphorylase, PNP, NP |
| **Dilution** | WB~~1:1000 |
| **Target/Specificity** | This PNP antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 145-178 amino acids from the Central region of human PNP. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PNP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PNP |
| **Synonyms** | NP |

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| **Function** | Catalyzes the phosphorolytic breakdown of the N-glycosidic bond in the beta-(deoxy)ribonucleoside molecules, with the formation of the corresponding free purine bases and pentose-1-phosphate (PubMed:23438750, PubMed:3029074, PubMed:9305964). Preferentially acts on 6-oxopurine nucleosides including inosine and guanosine (PubMed:9305964). |
| **Cellular Location** | Cytoplasm, cytosol |
| **Tissue Location** | Expressed in red blood cells; overexpressed in red blood cells (cytoplasm) of patients with hereditary non-spherocytic hemolytic anemia of unknown etiology. |

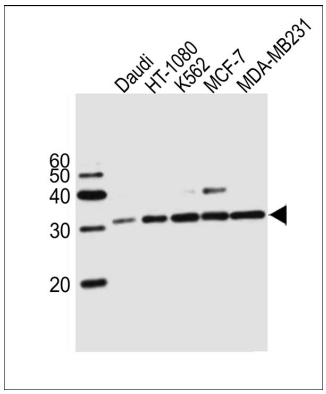
## Background

The purine nucleoside phosphorylases catalyze the phosphorolytic breakdown of the N-glycosidic bond in the beta- (deoxy)ribonucleoside molecules, with the formation of the corresponding free purine bases and pentose-1-phosphate.

## References


Williams S.R.,et al.Nucleic Acids Res. 12:5779-5787(1984).
Williams S.R.,et al.J. Biol. Chem. 262:2332-2338(1987).
Yu L.,et al.Environ. Health Perspect. 111:1421-1427(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.


## Images




Western blot analysis of lysates from Daudi,HT-1080,K562,MCF-7,MDA-MB231 cell line (from left to right), using PNP Antibody (Center)(Cat. #AW5316). AW5316 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.