

**PNP Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5316**

**Specification**

---

**PNP Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P00491</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	H=32;M=32;Rat=32 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**PNP Antibody (Center) - Additional Information**

**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.

**PNP Antibody (Center) - Protein Information**

**Name** PNP

**Synonyms** NP

**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:<a href="http://www.uniprot.org/citations/23438750" target="\_blank">23438750</a>, PubMed:<a href="http://www.uniprot.org/citations/9305964" target="\_blank">9305964</a>). Preferentially acts on 6-oxopurine nucleosides including inosine and guanosine (PubMed:<a href="http://www.uniprot.org/citations/9305964" target="\_blank">9305964</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

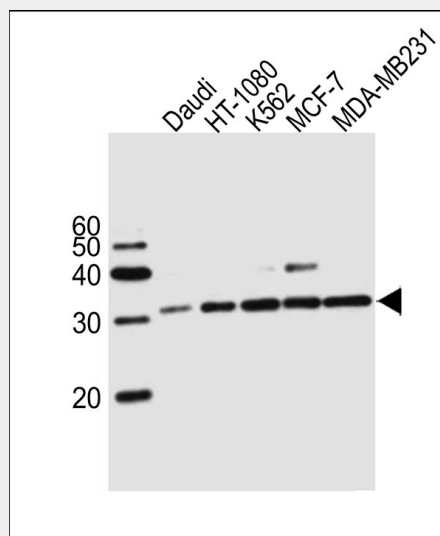
Expressed in red blood cells; overexpressed in red blood cells (cytoplasm) of patients with hereditary non-spherocytic hemolytic anemia of unknown etiology.

**PNP Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PNP Antibody (Center) - 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.

#### **PNP Antibody (Center) - 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.

#### **PNP Antibody (Center) - 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.