10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PNP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5316

Product Information

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

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

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: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.

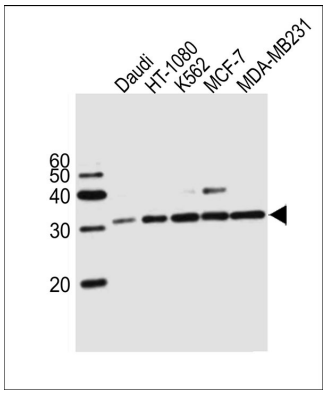
Background

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'.