

For Research Use Only

Nucleoside phosphorylase Recombinant monoclonal antibody, PBS Only (Detector)



Catalog Number: 86651-1-PBS

Basic Information

Catalog Number: 86651-1-PBS	GenBank Accession Number: BC106074	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4860	CloneNo.: 251603E11
Isotype: IgG	UNIPROT ID: P00491	
Immunogen Catalog Number: AG12507	Full Name: nucleoside phosphorylase	
	Calculated MW: 289 aa, 32 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Purine nucleoside phosphorylases (PNP) is a ubiquitous enzyme of purine metabolism that functions in the salvage pathway, including even those of protozoan parasites, thus enabling the cells to utilize purine bases recovered from metabolized purine ribo- and deoxyribonucleosides to synthesize purine nucleotides (PMID: 11337031, 23332162). PNP deficiency in humans leads to an impairment of T-cell function, usually with no apparent effects on B-cell function. hPNP is widely distributed in various tissues and cells of the human body, with the highest activity in kidney, peripheral lymphocytes and granulocytes (PMID: 38701712).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

T: 4006900926

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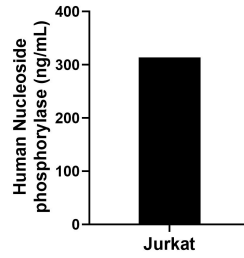
W: ptgcn.com

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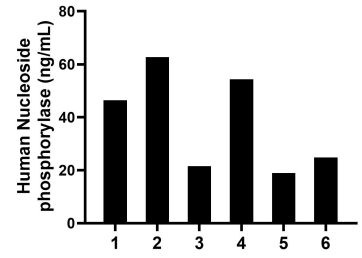
Selected Validation Data



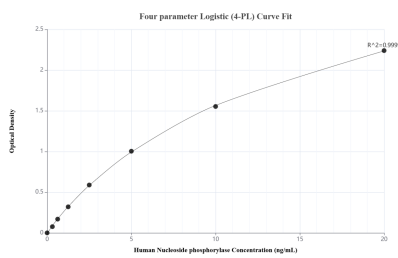
Various lysates were subjected to SDS PAGE followed by western blot with 86651-1-RR (Nucleoside phosphorylase antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86651-1-PBS in a different storage buffer formulation.



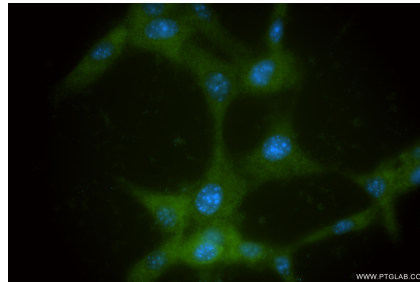
The mean Nucleoside phosphorylase concentration was determined to be 313.73 ng/mL in Jurkat cell extract based on a 1.20 mg/mL extract load.



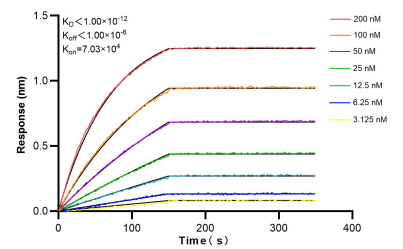
Plasma of six individual healthy human donors was measured. The Nucleoside phosphorylase concentration of detected samples was determined to be 38.13 ng/mL with a range of 18.89-62.76 ng/mL.



Sandwich ELISA standard curve of MPO2719-1, Human Nucleoside phosphorylase Recombinant Matched Antibody Pair - PBS only. 86651-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag12507. 86651-1-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using NP antibody (86651-1-RR, Clone: 251603E11) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 86651-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 86651-1-RR against Human Nucleoside phosphorylase were performed. The affinity constant is below 1 pM.