For Research Use Only

Nucleoside phosphorylase Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:86651-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
86651-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12507

GenBank Accession Number:
BC106074

GeneID (NCBI):
4860

UNIPROT ID:
P00491

Full Name:
nucleoside phosphorylase

Calculated MW:
289 aa, 32 kDa

Observed MW:
32 kDa

Purification Method:
Protein A purification

CloneNo.:
251603E11

Applications

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

Species Specificity:
human, mouse, rat

Product Information

86651-1-PBS targets Nucleoside phosphorylase as part of a matched antibody pair:

MP02719-1: 86651-2-PBS capture and 86651-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

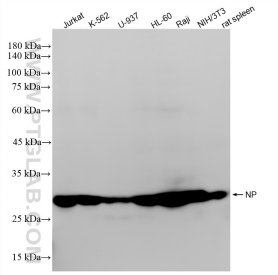
Purine nucleoside phosphorylases (PNP) is a ubiquitous enzyme of purine metabolism that functions in the salvage pathway, including even those of protozoan parasites, thus enabling the cells to utilize purine bases recovered from metabolized purine ribo- and deoxyribonucleosides to synthesize purine 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

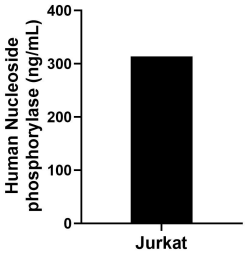
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

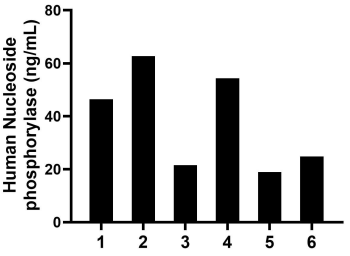
Selected Validation Data



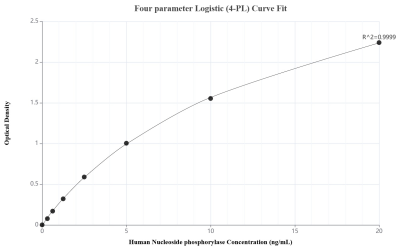
Various lysates were subjected to SDS PAGE followed by western blot with 86651-1-RR (Nucleoside phosphorylase antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86651-1-PBS in a different storage buffer formulation.



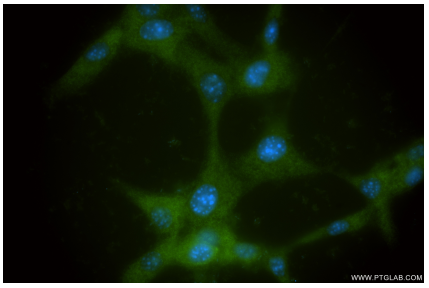
The mean Nucleoside phosphorylase concentration was determined to be 313.73 ng/mL in Jurkat cell extract based on a 1.20 mg/mL extract load.



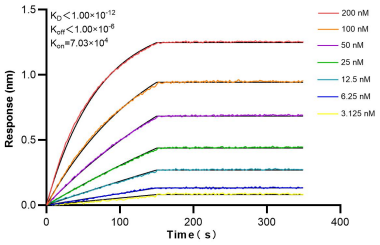
Plasma of six individual healthy human donors was measured. The Nucleoside phosphorylase concentration of detected samples was determined to be 38.13 ng/mL with a range of 18.89-62.76 ng/mL.



Sandwich ELISA standard curve of MP02719-1, 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.



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