Datasheet for ABIN7602996

anti-PNP antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	PNP
Binding Specificity:	Middle Region
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PNP antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-PNP Antibody Picoband® (monoclonal, 2H10)
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human PNP, different from the related mouse sequence by six amino acids, and from the related rat sequence by five amino acids.
Clone:	2H10
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PNP Antibody Picoband® (monoclonal, 2H10) (ABIN7602996). Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband,

Product Details

	ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PNP
Alternative Name:	PNP (PNP Products)
Background:	Synonyms: ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial, CLPX Tissue Specificity: Higher expression in skeletal muscle and heart and to a lesser extent in liver, brain, placenta, lung, kidney and pancreas. Background: The PNP gene encodes purine nucleoside phosphorylase, an enzyme that catalyzes the reversible phosphorolysis of the purine nucleosides and deoxynucleosides inosine, guanosine, deoxyinosine, and deoxyguanosine. It is presented results from gene dosage studies consistent with assignment of the PNP locus to band 14q13. PNP is expressed in most tissues, with markedly greater expression in lymphoid tissues. Genetic deficiencies of PNP result in severely compromised Tlymphocyte function and neurologic dysfunction.
Molecular Weight:	32 kDa
Gene ID:	4860
UniProt:	P00491
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Ribonucleoside Biosynthetic Process, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Rat 1. Williams, S. R., Goddard, J. M., Martin, D. W., Jr. Human purine nucleoside phosphorylase cDNA sequence and genomic clone characterization. Nucleic Acids Res. 12: 5779-5787, 1984. 2. Frecker, M., Dallaire, L., Young, S. R., Chen, G. C. C., Simpson, N. E. Confirmation of regional assignment of nucleoside phosphorylase (NP) on chromosome 14 by gene dosage studies. Hum. Genet. 45: 167-173, 1978. 3. Markert, M. L., Finkel, B. D., McLaughlin, T. M., Watson, T. J., Collard, H. R., McMahon, C. P., Andrews, L. G., Barrett, M. J., Ward, F. E. Mutations in purine nucleoside phosphorylase deficiency. Hum. Mutat. 9: 118-121, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.