Datasheet for ABIN7354572

anti-PNP antibody (Middle Region) (DyLight 488)

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Overview

Quantity:	100 µg
Target:	PNP
Binding Specificity:	AA 161-189, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PNP antibody is conjugated to DyLight 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human PNP DyLight® 488 conjugated Antibody
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.
Sequence:	AMSDAYDRTM RQRALSTWKQ MGEQRELQE
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human PNP DyLight® 488 conjugated Antibody -Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.

Target Details

Target:	PNP
Alternative Name:	PNP (PNP Products)
Background:	Synonyms: Purine nucleoside phosphorylase, PNP, Inosine phosphorylase, Inosine-guanosine phosphorylase, NP Tissue Specificity: Expressed in red blood cells, overexpressed in red blood cells (cytoplasm) of patients with hereditary non- spherocytic hemolytic anemia of unknown etiology. 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:	39 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:	Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells1. 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:	Liquid

Handling

Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na2HPO4, 0.02 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.