Datasheet for ABIN7600629

anti-GMP Synthase antibody (AA 21-671)

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Overview

Quantity:	100 µg
Target:	GMP Synthase (GMPS)
Binding Specificity:	AA 21-671
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GMP Synthase antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-GMPS Antibody Picoband®
Immunogen:	E.coli-derived human GMPS recombinant protein (Position: H21-K671).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GMPS Antibody Picoband® (ABIN7600629). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, 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, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GMP Synthase (GMPS)
Alternative Name:	GMPS (GMPS Products)
Background:	Synonyms: DNA replication licensing factor MCM5, CDC46 homolog, P1-CDC46, MCM5, CDC46 Tissue Specificity: Ubiquitous. Background: Guanosine monophosphate synthetase, also known as GMPS is an enzyme that converts xanthosine monophosphate to guanosine monophosphate. In the de novo synthesis of purine nucleotides, IMP is the branch point metabolite at which point the pathway diverges to the synthesis of either guanine or adenine nucleotides. In the guanine nucleotide pathway, there are 2 enzymes involved in converting IMP to GMP, namely IMP dehydrogenase (IMPD1), which catalyzes the oxidation of IMP to XMP, and GMP synthetase, which catalyzes the amination of XMP to GMP.
Molecular Weight:	77 kDa
Gene ID:	8833
UniProt:	P49915
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Hirst, M., Haliday, E., Nakamura, J., Lou, L. Human GMP synthetase: protein purification, cloning, and functional expression of cDNA. J. Biol. Chem. 269: 23830-23837, 1994. 2. Pegram, L. D., Megonigal, M. D., Lange, B. J., Nowell, P. C., Rowley, J. D., Rappaport, E. F., Felix, C. A. t(3,11) translocation in treatment-related acute myeloid leukemia fuses MLL with the GMPS (guanosine 5-prime monophosphate synthetase) gene. Blood 96: 4360-4362, 2000.
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

Handling

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.

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