

GMP Synthase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55166

Product Information

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| Application | WB, IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | P49915 |
| Reactivity | Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 76715 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human GMP Synthase |
| Epitope Specificity | 301-400/693 |
| Isotype | IgG |
| Purity | affinity purified by Protein A |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Cytoplasm. |
| SIMILARITY | Contains 1 glutamine amidotransferase type-1 domain. Contains 1 GMP-binding domain. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| Background Descriptions | 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. [provided by RefSeq, Jul 2008]. |

Additional Information

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| Gene ID | 8833 |
| Other Names | GMP synthase [glutamine-hydrolyzing], 6.3.5.2, GMP synthetase, Glutamine amidotransferase, GMPS |
| Target/Specificity | Note=A chromosomal aberration involving GMPS is found in acute myeloid leukemias. Translocation t(3,11)(q25,q23) with MLL. |
| Dilution | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| Format | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody |

is stable for at least two weeks at 2-4 °C.

Protein Information

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| Name | GMPS |
| Function | Catalyzes the conversion of xanthine monophosphate (XMP) to GMP in the presence of glutamine and ATP through an adenylyl-XMP intermediate. |
| Cellular Location | Cytoplasm, cytosol. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.