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GMP Synthase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55166

Specification

GMP Synthase Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P49915
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**77 KDa**
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].

GMP Synthase Polyclonal Antibody - Additional Information

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~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

GMP Synthase Polyclonal Antibody - Protein Information

Name GMPS

Function
Catalyzes the conversion of xanthine monophosphate (XMP) to GMP in the presence of glutamine and ATP through an adenyl-XMP intermediate.

Cellular Location
Cytoplasm, cytosol.

GMP Synthase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GMP Synthase Polyclonal Antibody - Images