



Rabbit Anti-GMP Synthase antibody

SL13459R

Product Name:	GMP Synthase
Chinese Name:	谷氨酰胺转移酶GMPS抗体
Alias:	GMPS; Glutamine amidotransferase; GMP synthase [glutamine hydrolyzing]; GMP synthase [glutamine-hydrolyzing]; GMP synthetase; Gmps; GUAA_HUMAN; Guanine monphosphate synthetase; MLL/GMPS fusion protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	77kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GMP Synthase:301-400/693
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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].

Function:

Involved in the de novo synthesis of guanine nucleotides which are not only essential for DNA and RNA synthesis, but also provide GTP, which is involved in a number of cellular processes important for cell division.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Note=A chromosomal aberration involving GMPS is found in acute myeloid leukemias. Translocation t(3,11)(q25,q23) with MLL.

Similarity:

Contains 1 glutamine amidotransferase type-1 domain.
Contains 1 GMP-binding domain.

SWISS:

P49915

Gene ID:

8833

Database links:

[Entrez Gene: 8833](#)Human

[Entrez Gene: 229363](#)Mouse

[Omir: 600358](#)Human

[SwissProt: P49915](#)Human

[SwissProt: Q3THK7](#)Mouse

[Unigene: 591314](#)Human

[Unigene: 331051](#)Mouse

[Unigene: 394565](#)Mouse

[Unigene: 441120](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

