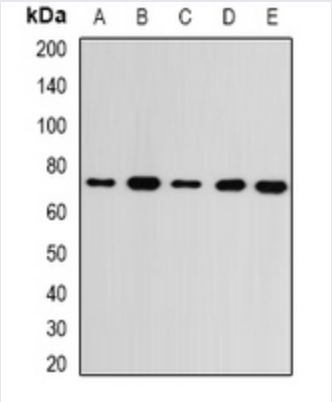
GMPS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GMPS, Polyclonal Antibody
Full Product Name	Anti-GMPS Antibody
Product Gene Name	anti-GMPS antibody
Product Synonym Names	GMP synthase [glutamine-hydrolyzing]; GMP synthetase; Glutamine amidotransferase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of GMPS protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	65,929 Da
OMIM	600358
3D Structure	ModBase 3D Structure for P49915
Immunogen	Recombinant full length protein of human GMPS
Applications Tested/Suitable for anti-GMPS antibody	Western Blot (WB)
Application Notes for anti-GMPS antibody	WB: 1/500 - 1/2000
Related Product Information for anti-GMPS antibody	MBS8245584 is an antibody targeting GMPS. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to GMPS
Other Notes	Small volumes of anti-GMPS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GMPS antibody
Western blot analysis of GMPS expression in MCF7 (A), SKOV3 (B), mouse kidney (C), mouse brain (D), rat heart (E) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GMPS. It may not necessarily be applicable to this product.

NCBI GI #	4504035
NCBI GeneID	8833
NCBI Accession #	NP_003866.1
UniProt Primary Accession #	P49915
UniProt Secondary Accession #	A8K639; B4DXV7; F8W720
UniProt Related Accession #	P49915
GenBank Nucleotide #	NM_003875.2
NCBI Official Full Name	GMP synthase
NCBI Official Synonym Full Names	guanine monophosphate synthase
NCBI Official Symbol	GMPS
UniProt Protein Name	GMP synthase [glutamine-hydrolyzing]
UniProt Synonym Protein Names	GMP synthetase; Glutamine amidotransferase
UniProt Gene Name	GMPS
UniProt Entry Name	GUAA_HUMAN
NCBI Protein Information	GMP synthase [glutamine-hydrolyzing]
NCBI Summary for GMPS	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]

UniProt Comments for GMPS	GMPS: 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. A chromosomal aberration involving GMPS is found in acute myeloid leukemias. Translocation t(3,11)(q25,q23) with MLL. Protein type: Nucleotide Metabolism - purine; Oncoprotein; Xenobiotic Metabolism - drug metabolism - other enzymes; EC 6.3.5.2; Ligase Chromosomal Location of Human Ortholog: 3q24 Cellular Component: cytoplasm; cytosol Molecular Function: ATP binding; GMP synthase (glutamine-hydrolyzing) activity; GMP synthase activity; pyrophosphatase activity Biological Process: glutamine metabolic process; GMP biosynthetic process; purine base biosynthetic process; purine ribonucleoside monophosphate biosynthetic process Disease: Leukemia, Acute Myeloid
Research Articles on GMPS	**1.** Cytoplasmic sequestration of GMPS requires ubiquitylation by TRIM21.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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