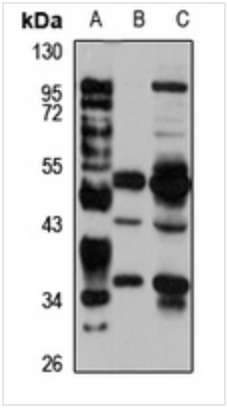
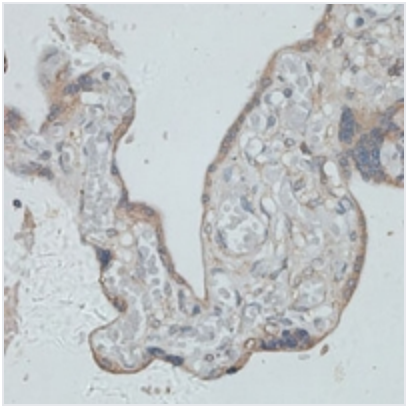
GMPR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GMPR, Polyclonal Antibody
Full Product Name	Anti-GMPR Antibody
Product Gene Name	anti-GMPR antibody
Product Synonym Names	GMPR1; GMP reductase 1; Guanosine 5'-monophosphate oxidoreductase 1; Guanosine monophosphate reductase 1
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	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of GMPR protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	37,419 Da
OMIM	139265
3D Structure	ModBase 3D Structure for P36959
Immunogen	Recombinant fusion protein of human GMPR. The exact sequence is proprietary.
Applications Tested/Suitable for anti-GMPR antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GMPR antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-GMPR antibody	MBS8306775 is an antibody targeting GMPR. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to GMPR
Other Notes	Small volumes of anti-GMPR 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-GMPR antibody
Western blot analysis of GMPR expression in K562 (A), mouse heart (B), mouse kidney (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-GMPR antibody
Immunohistochemical analysis of GMPR staining in human placenta formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

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

NCBI GI #	156104880
NCBI GeneID	2766
NCBI Accession #	NP_006868.3
UniProt Primary Accession #	P36959
UniProt Secondary Accession #	Q9DCZ1; Q9Z244
UniProt Related Accession #	P36959
GenBank Nucleotide #	NM_006877.3
NCBI Official Full Name	GMP reductase 1
NCBI Official Synonym Full Names	guanosine monophosphate reductase
NCBI Official Symbol	GMPR
NCBI Official Synonym Symbols	GMPR1
UniProt Protein Name	GMP reductase 1
UniProt Synonym Protein Names	Guanosine 5'-monophosphate oxidoreductase 1; Guanosine monophosphate reductase 1
Protein Family	GMP reductase
UniProt Gene Name	GMPR
UniProt Synonym Gene Names	GMPR1; Guanosine monophosphate reductase 1
UniProt Entry Name	GMPR1_HUMAN
NCBI Protein Information	GMP reductase 1; guanine monophosphate reductase; guanosine 5'-monophosphate oxidoreductase 1; guanosine monophosphate reductase 1
NCBI Summary for GMPR	This gene encodes an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP. The protein also functions in the re-utilization of free intracellular bases and purine nucleosides.[provided by RefSeq, Oct 2009]

UniProt Comments for GMPR	GMPR: Catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. It functions in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in maintaining the intracellular balance of A and G nucleotides. Belongs to the IMPDH/GMPR family. Protein type: Nucleotide Metabolism - purine; Oxidoreductase; EC 1.7.1.7 Chromosomal Location of Human Ortholog: 6p23 Cellular Component: cytosol Molecular Function: GMP reductase activity; metal ion binding Biological Process: nucleobase, nucleoside and nucleotide metabolic process; nucleotide metabolic process; response to cold; purine base metabolic process; purine salvage
Research Articles on GMPR	**1.** GMPR as a suppressor of melanoma invasion is downregulated at the early invasive stages of melanoma progression and whose activity inhibits melanoma cell invasion by depleting intracellular GTP pools.
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