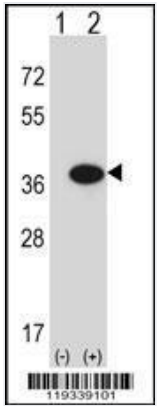
GMPR Antibody – Rabbit Polyclonal

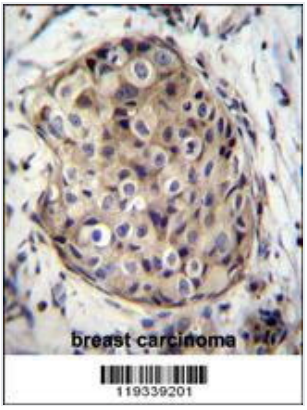
PRODUCT OVERVIEW

Product Name	GMPR, Polyclonal Antibody
Full Product Name	GMPR, CT (GMPR, GMPR1, GMP reductase 1, Guanosine 5'-monophosphate oxidoreductase 1) (PE)
Product Gene Name	anti-GMPR antibody
Product Synonym Names	GMPR; GMPR1; GMP reductase 1; Guanosine 5'-monophosphate oxidoreductase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37,419 Da
OMIM	139265
3D Structure	ModBase 3D Structure for P36959
Immunogen	GMPR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 237-267 amino acids from the C-terminal region of human GMPR.
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-GMPR antibody	Antibodies; Enzymes; Reductase
Applications Tested/Suitable for anti-GMPR antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-GMPR antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-GMPR antibody	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.
Product References and Citations for anti-GMPR antibody	Chasman, D.I., et al. PLoS Genet. 5 (11), E1000730 (2009): Lamesch, P., et al. Genomics 89(3):307-315(2007). Mungall, A.J., et al. Nature 425(6960):805-811(2003). Deng, Y., et al. Int. J. Biochem. Cell Biol. 34(9):1035-1050(2002). Salvatore, D., et al. J. Biol. Chem. 273(47):31092-31096(1998).
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.

Searchable Terms for GMPR purchase	MBS6302852 is an antibody targeting GMPR. Also known as GMPR, CT (GMPR, GMPR1, GMP reductase 1, Guanosine 5'-monophosphate oxidoreductase 1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GMPR antibody
Western blot analysis of GMPR (arrow) using rabbit polyclonal GMPR Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GMPR gene.



Immunohistochemistry (IHC) of anti-GMPR antibody
GMPR Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GMPR Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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 #	Q96HQ6
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

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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