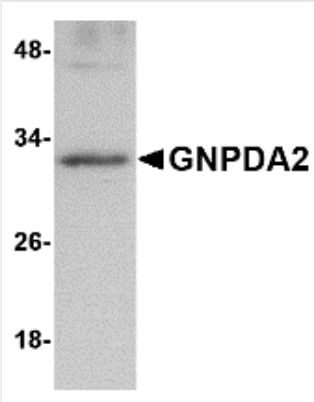
GNPDA2 Antibody – Rabbit Polyclonal

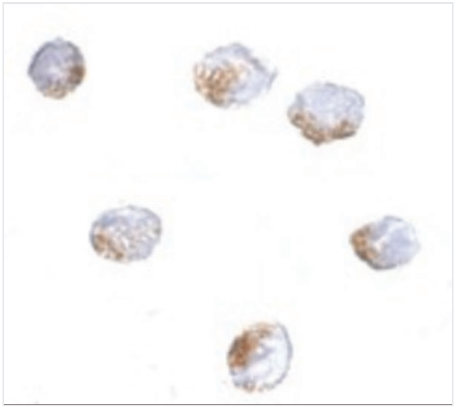
PRODUCT OVERVIEW

Product Name	GNPDA2, Polyclonal Antibody
Full Product Name	GNPDA2 Antibody
Product Gene Name	anti-GNPDA2 antibody
Product Synonym Names	GNPDA2; GNP2; SB52; GNP2; Glucosamine-6-phosphate isomerase 2; Glucosamine-6-phosphate deaminase 2; GNPDA 2; glucosamine-6-phosphate deaminase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	GNPDA2 Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	GNPDA2 antibody is predicted to not cross-react with GNPDA1.
Preparation and Storage	GNPDA2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	GNPDA2 peptide (MBS152452) is used for blocking the activity of GNPDA2 antibody (MBS150148)
Molecular Weight	27,091 Da
OMIM	613222
3D Structure	ModBase 3D Structure for Q8TDQ7
Conjugate	Unconjugated
Immunogen	GNPDA2 antibody was raised against an 8 amino acid synthetic peptide near the carboxy terminus of human GNPDA2.
Buffer	GNPDA2 Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-GNPDA2 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-GNPDA2 antibody	GNPDA2 antibody can be used for detection of GNPDA2 by Western blot at 1 mug/mL. Antibody can also be used for immunocytochemistry starting at 4 mug/mL. For immunofluorescence start at 20 mug/mL.
Related Product Information for anti-GNPDA2 antibody	GNPDA2 Antibody: Glucosamine-6-phosphate deaminase (GNPDA) is an allosteric enzyme that catalyzes the reversible conversion of D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. GNPDA2 is the second mammalian glucosamine-6-phosphate deaminase discovered, and is closer in structure and activity to the E. coli enzyme than GNPDA1. GNPDA1 possesses greater affinity for ammonium than either GNPDA2 or the E. coli enzyme suggesting that the forward reaction of D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium is catalyzed at a slower rate than GNPDA2.
Other Notes	Small volumes of anti-GNPDA2 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.

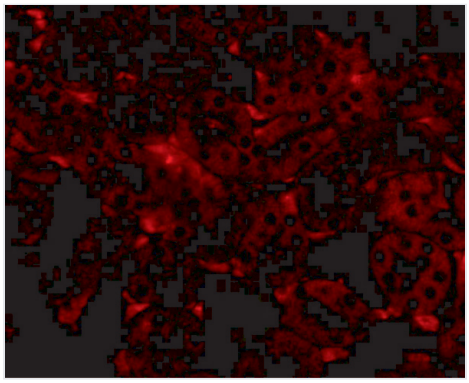
Searchable Terms for GNPDA2 purchase	MBS150148 is an antibody targeting GNPDA2. Also known as GNPDA2 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-GNPDA2 antibody
Western blot analysis of GNPDA2 in human kidney lysate with GNPDA2 antibody at 1 ? g/mL.



Immunocytochemistry (IHC) of anti-GNPDA2 antibody
Immunocytochemistry of GNPDA2 in 293 cells with GNPDA2 antibody at 4 ?g/mL.



Immunofluorescence (IF) of anti-GNPDA2 antibody
Immunofluorescence of GNPDA2 in mouse kidney tissue with GNPDA2 antibody at 20 ? g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNPDA2. It may not necessarily be applicable to this product.

NCBI GI #	19923881
NCBI GeneID	132789
NCBI Accession #	NP_612208
UniProt Primary Accession #	Q8TDQ7
UniProt Secondary Accession #	Q2VYF1; Q59EA7; Q8NCZ8; Q96BJ4; Q96NC6; B4DJF3
UniProt Related Accession #	Q8TDQ7
GenBank Nucleotide #	NM_138335.2
NCBI Official Full Name	glucosamine-6-phosphate isomerase 2 isoform 1
NCBI Official Synonym Full Names	glucosamine-6-phosphate deaminase 2
NCBI Official Symbol	GNPDA2
NCBI Official Synonym Symbols	GNP2; SB52
UniProt Protein Name	Glucosamine-6-phosphate isomerase 2

UniProt Synonym Protein Names	Glucosamine-6-phosphate deaminase 2; GNPDA 2; GlcN6P deaminase 2; Glucosamine-6-phosphate isomerase SB52
UniProt Gene Name	GNPDA2
UniProt Synonym Gene Names	GNP2; GNPDA 2; GlcN6P deaminase 2
UniProt Entry Name	GNPI2_HUMAN
NCBI Protein Information	glucosamine-6-phosphate isomerase 2; glcN6P deaminase 2; glucosamine-6-phosphate isomerase SB52
NCBI Summary for GNPDA2	The protein encoded by this gene is an allosteric enzyme that catalyzes the reversible reaction converting D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. Variations of this gene have been reported to be associated with influencing body mass index and susceptibility to obesity. A pseudogene of this gene is located on chromosome 9. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]
UniProt Comments for GNPDA2	GNPDA2: is an allosteric enzyme that catalyzes the reversible reaction converting D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. Variations of this gene have been reported to be associated with influencing body mass index and susceptibility to obesity. A pseudogene of this gene is located on chromosome 9. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012] Protein type: Isomerase; EC 3.5.99.6; Hydrolase; Carbohydrate Metabolism - amino sugar and nucleotide sugar Chromosomal Location of Human Ortholog: 4p12 Cellular Component: cytoplasm; nucleus Molecular Function: glucosamine-6-phosphate deaminase activity; hydrolase activity Biological Process: carbohydrate metabolic process; N-acetylglucosamine metabolic process
Research Articles on GNPDA2	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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