Rabbit GNPDA1 Polyclonal Antibody | anti-GNPDA1 antibody

GNPDA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39904	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Immunocytochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

GNPDA1; Polyclonal Antibody; GNPDA1 Antibody; GPI; HLN; GNP1; GNPI; GNPDA; KIAA0060; Glucosamine-6-phosphate isomerase 1; Glucosamine-6-phosphate deaminase 1; GNPDA 1; glucosamine-6-phosphate deaminase 1; anti-GNPDA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GNPDA1 is predicted to not cross-react with GNPDA2.
Purity/Purification	GNPDA1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	289
Applicable Applications for anti-GNPDA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	GNPDA1 antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human GNPDA1.
Buffer	GNPDA1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	GNPDA1 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.

IMAGES

IF (Immunofluorescence)
Immunofluorescence of GNPDA1 in 293 cells with GNPDA1 antibody at 20 μg/mL.

ICC (Immunocytochemistry)
Immunocytochemistry of GNPDA1 in 293 cells with GNPDA1 antibody at 5 μg/mL.

WB (Western Blot)
Western blot analysis of GNPDA1 in mouse kidney lysate with GNPDA1 antibody at (A) 1 and (B) 2 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-GNPDA1 antibody	GNPDA1 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. GNPDA1 is one of two mammalian glucosamine-6-phosphate deaminases that are thought to have arisen though gene duplication, with the GNPDA2 protein closer in structure and activity to the E. coli enzyme. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2935438
NCBI GeneID	10007
UniProt Accession #	P46926; B7Z3X4; D3DQE7
Molecular Weight	24,047 Da
NCBI Official Full Name	glucosamine-6-phosphate deaminase
NCBI Official Synonym Full Names	glucosamine-6-phosphate deaminase 1
NCBI Official Symbol	GNPDA1
NCBI Official Synonym Symbols	GPI; HLN; GNP1; GNPI; GNPDA
NCBI Protein Information	glucosamine-6-phosphate isomerase 1; GNPDA 1; oscillin; glcN6P deaminase 1
UniProt Protein Name	Glucosamine-6-phosphate isomerase 1
UniProt Gene Name	**GNPDA1**
UniProt Synonym Gene Names	GNPI; HLN; KIAA0060; GNPDA 1; GlcN6P deaminase 1
UniProt Entry Name	GNPI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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