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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-GNPDA1 Antibody

Catalog Number: A10820-1

About GNPDA1

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.

Overview

Product Name	Anti-GNPDA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GNPDA1 Antibody (Catalog # A10820-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	GNPDA1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	GNPDA1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P46926

Technical Details

Immunogen	GNPDA1 antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human GNPDA1. The immunogen is located within the last 50 amino acids of GNPDA1.
Predicted Reactive Species	Bovine
Cross Reactivity	GNPDA1 is predicted to not cross-react with GNPDA2.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	GNPDA1 Antibody is affinity chromatography purified via peptide column.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: GNPDA1 antibody can be used for detection of GNPDA1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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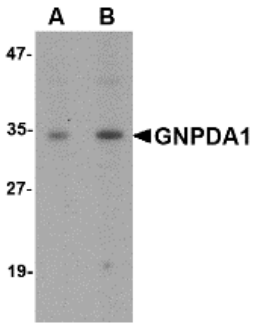
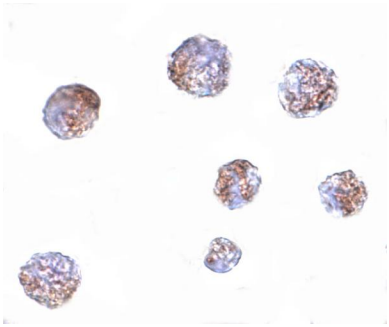
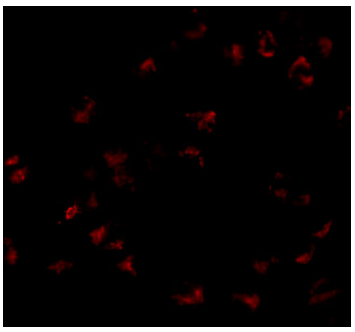
Anti-GNPDA1 Antibody (A10820-1) Images



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



Immunocytochemistry of GNPDA1 in 293 cells with GNPDA1 antibody at 5 ug/mL.



Immunofluorescence of GNPDA1 in 293 cells with GNPDA1 antibody at 20 ug/mL.

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