

Datasheet for ABIN499896
anti-GNPDA1 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	0.1 mg
Target:	GNPDA1
Binding Specificity:	C-Term
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNPDA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	GNPDA1 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human GNPDA1.
Isotype:	IgG
Specificity:	This antibody reacts to GNPDA1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	GNPDA1
Alternative Name:	GNPDA1 (GNPDA1 Products)
Background:	Glucosamine-6-phosphate deaminase (GNPDA) is an allosteric enzyme that catalyzes the

Target Details

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 through 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. GNPDA1 is predicted to not cross-react with GNPDA2. Synonyms: GNPI, GlcN6P deaminase 1, Glucosamine-6-phosphate deaminase 1, Glucosamine-6-phosphate isomerase 1, HLN, KIAA0060, Oscillin

Gene ID: 10007

UniProt: [P46926](#)

Application Details

Application Notes: ELISA. Western Blot: 1 - 2 µg/mL. Immunocytochemistry.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

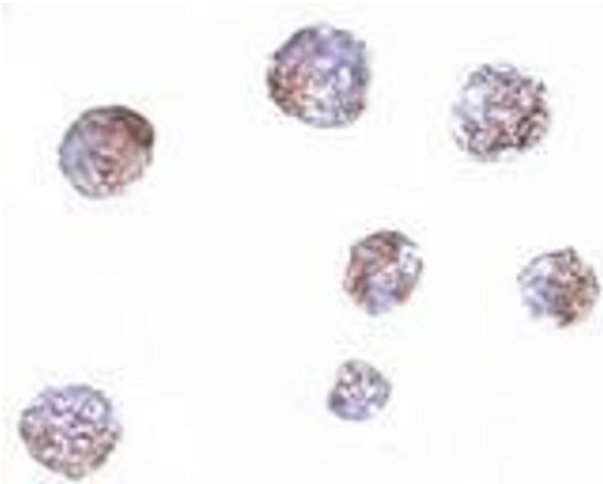
Buffer: PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

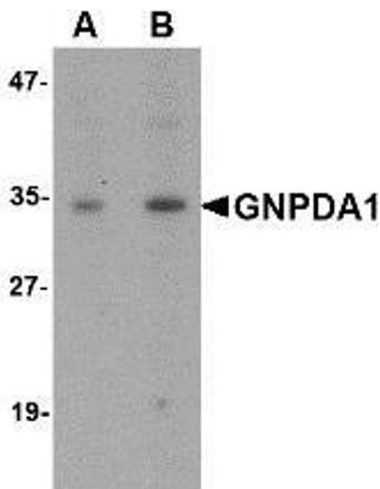
Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.



Immunofluorescence

Image 1. Immunocytochemistry of GNPDA1 in 293 cells with AP30368PU-N GNPDA1 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of GNPDA1 in mouse kidney lysate with AP30368PU-N GNPDA1 antibody at (A) 1 and (B) 2 µg/ml.