

GNPDA2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55172**Specification**

GNPDA2 Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q8TDQ7
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31085

GNPDA2 Polyclonal Antibody - Additional Information**Gene ID** 132789**Other Names**

Glucosamine-6-phosphate isomerase 2, 3.5.99.6, Glucosamine-6-phosphate deaminase 2, GNPDA 2, GlcN6P deaminase 2, Glucosamine-6-phosphate isomerase SB52, GNPDA2, GNP2

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

GNPDA2 Polyclonal Antibody - Protein Information**Name** GNPDA2 {ECO:0000303|PubMed:26887390}**Synonyms** GNP2**Function**

Catalyzes the reversible conversion of alpha-D-glucosamine 6- phosphate (GlcN-6P) into beta-D-fructose 6-phosphate (Fru-6P) and ammonium ion, a regulatory reaction step in de novo uridine diphosphate-N-acetyl-alpha-D-glucosamine (UDP-GlcNAc) biosynthesis via hexosamine pathway. Deamination is coupled to aldo-keto isomerization mediating the metabolic flux from UDP-GlcNAc toward Fru-6P. At high ammonium level can drive amination and isomerization of Fru-6P toward hexosamines and UDP-GlcNAc synthesis. Has a role in fine tuning the metabolic fluctuations of cytosolic UDP-GlcNAc and their effects on hyaluronan synthesis that occur during tissue remodeling.

Cellular Location

Cytoplasm.

Tissue Location

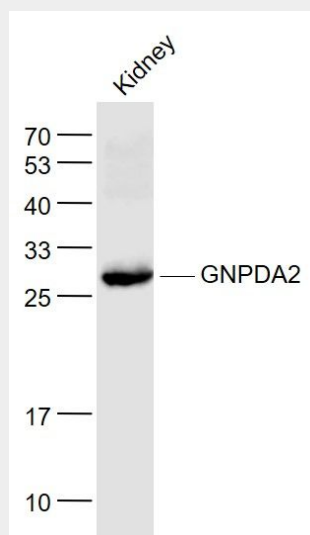
Ubiquitous, with highest expression detected in testis, ovary, placenta, and heart.

GNPDA2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GNPDA2 Polyclonal Antibody - Images



Sample:

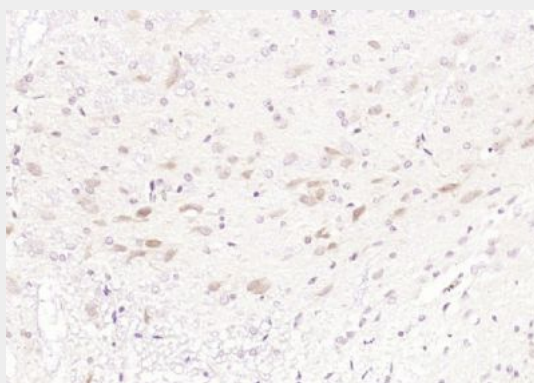
Kidney (Mouse) Lysate at 40 ug

Primary: Anti- GNPDA2 (bs-13474R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD

Observed band size: 30 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GNPDA2) Polyclonal Antibody, Unconjugated (bs-13474R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.