

GNPDA2 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS13736**Specification**

GNPDA2 Antibody (C-Terminus) - Product Information

Application	ICC, IF
Primary Accession	Q8TDQ7
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa KDa

GNPDA2 Antibody (C-Terminus) - 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

Target/Specificity

Human GNPDA2

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

GNPDA2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GNPDA2 Antibody (C-Terminus) - 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.

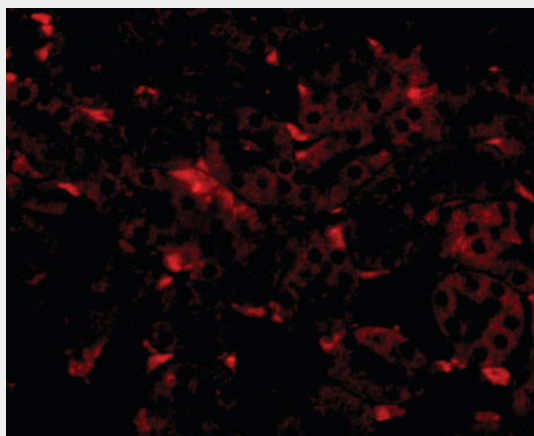
GNPDA2 Antibody (C-Terminus) - Protocols

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 Antibody (C-Terminus) - Images

Immunocytochemistry of GNPDA2 in 293 cells with GNPDA2 antibody at 4 ug/ml.



Immunofluorescence of GNPDA2 in mouse kidney tissue with GNPDA2 antibody at 20 ug/ml.

GNPDA2 Antibody (C-Terminus) - References

Zhang J., et al. J. Cell. Biochem. 88:932-940(2003).

Xu J.,et al.Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).