

GFPT1 / GFAT Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11201**Specification**

GFPT1 / GFAT Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	Q06210
Reactivity	Human, Mouse, Monkey, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79kDa KDa

GFPT1 / GFAT Antibody (N-Terminus) - Additional Information**Gene ID** 2673**Other Names**

Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1, 2.6.1.16,
D-fructose-6-phosphate amidotransferase 1, Glutamine:fructose-6-phosphate amidotransferase 1,
GFAT 1, GFAT1, Hexosephosphate aminotransferase 1, GFPT1, GFAT, GFPT

Target/Specificity

Human GFPT1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

GFPT1 / GFAT Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GFPT1 / GFAT Antibody (N-Terminus) - Protein Information**Name** GFPT1**Synonyms** GFAT, GFPT**Function**

Controls the flux of glucose into the hexosamine pathway. Most likely involved in regulating the availability of precursors for N- and O-linked glycosylation of proteins. Regulates the circadian expression of clock genes BMAL1 and CRY1 (By similarity). Has a role in fine tuning the metabolic fluctuations of cytosolic UDP-GlcNAc and its effects on hyaluronan synthesis that occur during tissue remodeling (PubMed:26887390).

Tissue Location

Isoform 1 is predominantly expressed in skeletal muscle. Not expressed in brain. Seems to be selectively expressed in striated muscle.

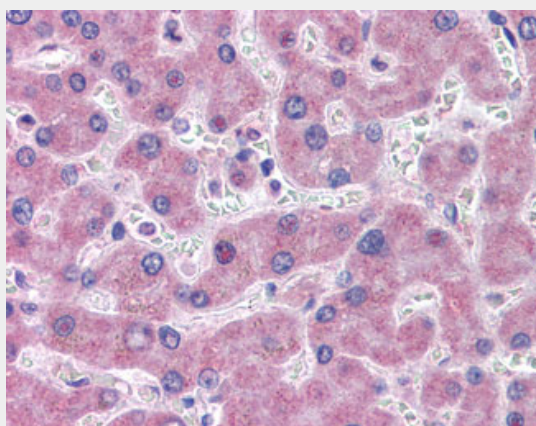
Volume

50 µl

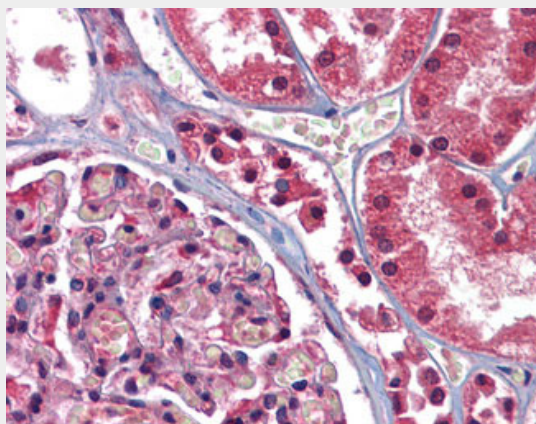
GFPT1 / GFAT Antibody (N-Terminus) - Protocols

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](#)

GFPT1 / GFAT Antibody (N-Terminus) - Images

Anti-GFPT1 antibody ALS11201 IHC of human liver.



Anti-GFPT1 antibody ALS11201 IHC of human kidney.

GFPT1 / GFAT Antibody (N-Terminus) - Background

Controls the flux of glucose into the hexosamine pathway. Most likely involved in regulating the availability of precursors for N- and O-linked glycosylation of proteins. Regulates the circadian expression of clock genes ARNTL/BMAL1 and CRY1.

GFPT1 / GFAT Antibody (N-Terminus) - References

McKnight G.L.,et al.J. Biol. Chem. 267:25208-25212(1992).
Hillier L.W.,et al.Nature 434:724-731(2005).
DeHaven J.E.,et al.Diabetes 50:2419-2424(2001).
Olsen J.V.,et al.Cell 127:635-648(2006).
Beausoleil S.A.,et al.Nat. Biotechnol. 24:1285-1292(2006).