

GFPT1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2211a**Specification****GFPT1 Antibody - Product Information**

Application	E, WB, IF, FC
Primary Accession	Q06210
Reactivity	Human, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	78.8kDa KDa

Description

This gene encodes the first and rate-limiting enzyme of the hexosamine pathway and controls the flux of glucose into the hexosamine pathway. The product of this gene catalyzes the formation of glucosamine 6-phosphate.

Immunogen

Purified recombinant fragment of human GFPT1 (AA: 536-681) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GFPT1 Antibody - 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

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GFPT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GFPT1 Antibody - 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.

GFPT1 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](#)