

GFPT1 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO2211a

Product Information

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	WB, FC, ICC, E Q06210 Human, Rat, Monkey Mouse Monoclonal 1F1A4 IgG1 78806 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 Formulation	Purified recombinant fragment of human GFPT1 (AA: 536-681) expressed in E. Coli. Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	2673
Other Names	Glutaminefructose-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	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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: <u>26887390</u>).
Tissue Location	Isoform 1 is predominantly expressed in skeletal muscle. Not expressed in brain. Seems to be selectively expressed in striated muscle.

References

1.Neurology. 2013 Jul 23;81(4):370-8.2.Hum Mol Genet. 2013 Jul 15;22(14):2905-13.

Images

