GLMS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLMS, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) GLMS Polyclonal Antibody
Product Gene Name	anti-GLMS antibody
Product Synonym Names	GLMS Antibody; Glutamine--fructose-6-phosphate aminotransferase [isomerizing]; EC 2.6.1.16; D-fructose-6-phosphate amidotransferase; GFAT; Glucosamine-6-phosphate synthase; Hexosephosphate aminotransferase; L-glutamine--D-fructose-6-phosphate amidotransferase; glmS b3729 JW3707
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli (strain K12)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	66,894 Da
3D Structure	ModBase 3D Structure for P17169
Immunogen	Recombinant Escherichia coli (strain K12) glmS protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GLMS antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-GLMS antibody	MBS7153101 is an antibody targeting GLMS. Also known as Rabbit anti-Escherichia coli (strain K12) GLMS Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-GLMS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLMS. It may not necessarily be applicable to this product.

NCBI GI #	16131597
NCBI GeneID	948241
NCBI Accession #	NP_418185.1
UniProt Primary Accession #	P17169

UniProt Secondary Accession #	P76745; Q2M847
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	L-glutamine:D-fructose-6-phosphate aminotransferase
NCBI Official Symbol	glmS
NCBI Official Synonym Symbols	ECK3722; JW3707
UniProt Protein Name	Glutamine--fructose-6-phosphate aminotransferase [isomerizing]
UniProt Synonym Protein Names	D-fructose-6-phosphate amidotransferase; GFAT; Glucosamine-6-phosphate synthase; Hexosephosphate aminotransferase; L-glutamine--D-fructose-6-phosphate amidotransferase
Protein Family	Glutamate mutase
UniProt Gene Name	glmS
NCBI Protein Information	L-glutamine:D-fructose-6-phosphate aminotransferase
NCBI Summary for GLMS	GlmS synthesis s negatively feedback regulated by glucosamine-6-phosphate, which probably causes YhbJ to cleave and inactivate the GlmZ sRNA; GlmZ upregulates glmS mRNA post-translationally (Kalamorz, 2007). [More information is available at EcoGene: EG10382]. L-glutamine:D-fructose-6-phosphate aminotransferase, or GFAT, catalyzes the first step in hexosamine biosynthesis. [More information is available at EcoCyc: EG10382].
UniProt Comments for GLMS	Catalyzes the first step in hexosamine metabolism, converting fructose-6P into glucosamine-6P using glutamine as a nitrogen source.
Research Articles on GLMS	**1.** An effective technique for the construction of GM (genetically modified) bacteria without an antibiotic resistant marker, and the construction of GM yeasts to be applied to complex media.
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