GGT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GGT, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) GGT Polyclonal Antibody
Product Gene Name	anti-GGT antibody
Product Synonym Names	GGT Antibody; Glutathione hydrolase proenzyme; EC 3.4.19.13; Gamma-glutamyltranspeptidase proenzyme; GGT; EC 2.3.2.2; [Cleaved into: Glutathione hydrolase large chain; Glutathione hydrolase small chain] ggt b3447 JW3412
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	61,768 Da
3D Structure	ModBase 3D Structure for P18956
Immunogen	Recombinant Escherichia coli (strain K12) ggt protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GGT antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-GGT antibody	MBS7152771 is an antibody targeting GGT. Also known as Rabbit anti-Escherichia coli (strain K12) GGT Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-GGT 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 GGT. It may not necessarily be applicable to this product.

NCBI GI #	16131319
NCBI GeneID	947947
NCBI Accession #	NP_417904.1
UniProt Primary Accession #	P18956
UniProt Secondary Accession #	Q2M7B0

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	gamma-glutamyltranspeptidase
NCBI Official Symbol	ggt
NCBI Official Synonym Symbols	ECK3431; JW3412
UniProt Protein Name	Glutathione hydrolase proenzyme
UniProt Synonym Protein Names	Gamma-glutamyltranspeptidase proenzyme
Protein Family	Gamma-glutamyltranspeptidase
UniProt Gene Name	ggt
UniProt Synonym Gene Names	GGT
NCBI Protein Information	gamma-glutamyltranspeptidase
NCBI Summary for GGT	Small subunit is residues 26-390; large subunit is residues 391-580. [More information is available at EcoGene: EG10374]. The ggt gene encodes -glutamyltranspeptidase . [More information is available at EcoCyc: EG10374].
UniProt Comments for GGT	Cleaves the gamma-glutamyl bond of periplasmic glutathione (gamma-Glu-Cys-Gly), glutathione conjugates, and other gamma-glutamyl compounds. The metabolism of glutathione releases free glutamate and the dipeptide cysteinyl-glycine, which is hydrolyzed to cysteine and glycine by dipeptidases; it may function in amino acid uptake/salvage, or possibly in peptidoglycan linkage. Catalyzes the hydrolysis and transpeptidation of many gamma-glutamyl compounds (including some D-gamma-glutamyl substrates), with a preference for basic and aromatic amino acids as acceptors (PubMed:2877974). The KM values for gamma-glutamyl acceptors are so high that it has been proposed transpeptidation is not the physiological role in E.coli (PubMed:2877974, PubMed:8104180).
Research Articles on GGT	**1.** beta-N-(gamma-L(+)-glutamyl)phenylhydrazine was prepared from L-glutamine and phenylhydrazine through a transpeptidation reaction of Escherichia coli gamma-glutamyltranspeptidase (although phenylhydrazine has been reported to be an inhibitor of the enzyme).
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