MLTC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MLTC, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) MLTC Polyclonal Antibody
Product Gene Name	anti-MLTC antibody
Product Synonym Names	MLTC Antibody; Membrane-bound lytic murein transglycosylase C; EC 4.2.2.n1; Murein lyase C; mltC yggZ b2963 JW5481
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	40,113 Da
3D Structure	ModBase 3D Structure for P0C066
Immunogen	Recombinant Escherichia coli (strain K12) mltC protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MLTC antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-MLTC antibody	MBS7150606 is an antibody targeting MLTC. Also known as Rabbit anti-Escherichia coli (strain K12) MLTC Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-MLTC 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 MLTC. It may not necessarily be applicable to this product.

NCBI GI #	90111520
NCBI GeneID	945428
NCBI Accession #	NP_417438.2
UniProt Primary Accession #	P0C066
UniProt Secondary Accession #	P52066; P71274; P76651; P76652; Q2M9N0

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	membrane-bound lytic murein transglycosylase C
NCBI Official Symbol	mltC
NCBI Official Synonym Symbols	ECK2958; JW5481; yggZ
UniProt Protein Name	Membrane-bound lytic murein transglycosylase C
UniProt Synonym Protein Names	Murein lyase C
Protein Family	Membrane-bound lytic murein transglycosylase
UniProt Gene Name	mltC
NCBI Protein Information	membrane-bound lytic murein transglycosylase C
NCBI Summary for MLTC	MltC should cleave the glycosidic bonds between the N-acetylmuramic acid and N-acetylglucosamine residues in murein. [More information is available at EcoGene: EG12986]. Escherichia coli contains a large number of murein hydrolase enzymes. [More information is available at EcoCyc: G7533].
UniProt Comments for MLTC	Murein-degrading enzyme. May play a role in recycling of muropeptides during cell elongation and/or cell division.
Research Articles on MLTC	**1.** The X-ray structure of a soluble construct of MltC shows a unique, compared to known lytic transglycosylase structures, two-domain structure characterized by an expansive active site of 53 A length extending through an interface between the domains.
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