MURJ Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	murJ, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) murJ Polyclonal antibody
Product Gene Name	anti-MURJ antibody
Product Synonym Names	MURJ Antibody; Lipid II flippase MurJ (Peptidoglycan biosynthesis protein MurJ) murJ mviN yceN b1069 JW1056
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	Protein A/G
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	55,267 Da
3D Structure	ModBase 3D Structure for P0AF16
Immunogen	Recombinant Escherichia coli (strain K12) MURJ protein
Conjugation	Non-conjugate
Product Categories/Family for anti-MURJ antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MURJ antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-MURJ antibody	MBS7166309 is an antibody targeting MURJ. Also known as Rabbit anti-Escherichia coli (strain K12) murJ Polyclonal antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-MURJ 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 MURJ. It may not necessarily be applicable to this product.

NCBI GI #	16129032
NCBI GeneID	945487
NCBI Accession #	NP_415587.1
UniProt Primary Accession #	P0AF16
UniProt Secondary Accession #	P75932

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	putative lipid II flippase
NCBI Official Symbol	murJ
NCBI Official Synonym Symbols	ECK1054; JW1056; mviN; mviS; yceN
UniProt Protein Name	Lipid II flippase MurJ
UniProt Synonym Protein Names	Peptidoglycan biosynthesis protein MurJCurated
Protein Family	Lipid II flippase
UniProt Gene Name	murJ
NCBI Protein Information	putative lipid II flippase
NCBI Summary for MURJ	murJ(yceN) is an essental gene and conditional lethal mutants sweel and burst and acumulate the murein intermediate polyprenyl diphosphate-N-acetylmuramic acid-(pentapeptide)-N-acetyl-glucosamine at the non-permissive temperature (Inoue, 2008). murJ(yceN) was identified as one of two ORFs adjacent to the flg locus in a region originally named mviS, then renamed mviN and mviM when sequenced; mviMN was thought to be required for mouse virulence in Salmonella, but the mviMN deletion in ST39 also removed flgM (Carsiotis, 1989). flgM was later shown to be able to complement the mviS phenotype, and thus flgM is the real mouse virulence gene in this region of the Salmonella chromosome not mviS (Schmitt, 1994). [More information is available at EcoGene: EG13880]. MurJ is an essential gene involved in murein synthesis as the flippase responsible for transport of lipid II from the inner face of the inner membrane to the outer face for polymerization . [More information is available at EcoCyc: G6561].
UniProt Comments for MURJ	Involved in peptidoglycan biosynthesis. Transports lipid-linked peptidoglycan precursors from the inner to the outer leaflet of the cytoplasmic membrane.
Research Articles on MURJ	**1.** From these data, authors hypothesize that some charged residues in the cavity region of MurJ homologs are required for interaction with lipid II and/or energy coupling during transport.
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