mrdB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	mrdB, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) mrdB Polyclonal Antibody
Product Gene Name	anti-mrdB antibody
Product Synonym Names	mrdB Antibody; Peptidoglycan glycosyltransferase MrdB; PGT; EC 2.4.1.129; Cell elongation protein RodA; Cell wall polymerase; Peptidoglycan polymerase; PG polymerase; Rod shape-determining protein; mrdB rodA b0634 JW0629
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	40,476 Da
3D Structure	ModBase 3D Structure for P0ABG7
Immunogen	Recombinant Escherichia coli (strain K12) mrdB protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-mrdB antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-mrdB antibody	MBS7165728 is an antibody targeting mrdB. Also known as Rabbit anti-Escherichia coli (strain K12) mrdB Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-mrdB 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 mrdB. It may not necessarily be applicable to this product.

NCBI GI #	16128617
NCBI GeneID	945238
NCBI Accession #	NP_415167.1
UniProt Primary Accession #	P0ABG7

UniProt Secondary Accession #	P13409; P15035
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	cell wall shape-determining protein
NCBI Official Symbol	mrdB
NCBI Official Synonym Symbols	ECK0627; JW0629; rodA
UniProt Protein Name	Peptidoglycan glycosyltransferase MrdB
UniProt Synonym Protein Names	Cell elongation protein RodA
Protein Family	Rod shape-determining protein
UniProt Gene Name	mrdB
UniProt Synonym Gene Names	PG polymerase
NCBI Protein Information	cell wall shape-determining protein
NCBI Summary for mrdB	The rodA gene encodes the RodA protein responsible for maintaining the rod cell shape and mecillinam sensitivity in Escherichia coli along with pbpA, which encodes PBP2 , . [More information is available at EcoCyc: EG10607].
UniProt Comments for mrdB	Peptidoglycan polymerase that is essential for cell wall elongation (PubMed:27643381). Also required for the maintenance of the rod cell shape (PubMed:2644207). Functions probably in conjunction with the penicillin-binding protein 2 (mrdA) (PubMed:2644207, PubMed:27643381).
Research Articles on mrdB	**1.** Mutations in mreB, mrdA and mrdB suppress the shape defect of RodZ-deficient cells.
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