PMRD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PMRD, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) PMRD Polyclonal Antibody
Product Gene Name	anti-PMRD antibody
Product Synonym Names	PMRD Antibody; Signal transduction protein PmrD; BasR post-transcriptional activator; Polymyxin resistance protein PmrD; pmrD b2259 JW2254
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	9,871 Da
3D Structure	ModBase 3D Structure for P37590
Immunogen	Recombinant Escherichia coli (strain K12) pmrD protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PMRD antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-PMRD antibody	MBS7158366 is an antibody targeting PMRD. Also known as Rabbit anti-Escherichia coli (strain K12) PMRD Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-PMRD 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 PMRD. It may not necessarily be applicable to this product.

NCBI GI #	90111410
NCBI GeneID	945130
NCBI Accession #	NP_416762.2
UniProt Primary Accession #	P37590
UniProt Secondary Accession #	P76475; P77155; Q5MN33; Q5MN36; Q5MN40; Q5MN44; Q5MN45; Q5MN54; Q5MN59; Q5MN60; Q5MN62

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	inactive two-component system connector protein
NCBI Official Symbol	pmrD
NCBI Official Synonym Symbols	ECK2253; JW2254
UniProt Protein Name	Signal transduction protein PmrD
UniProt Synonym Protein Names	BasR post-transcriptional activator; Polymyxin resistance protein PmrD
Protein Family	Signal transduction protein
UniProt Gene Name	pmrD
NCBI Protein Information	inactive two-component system connector protein
NCBI Summary for PMRD	In Salmonella but not Escherichia coli, low Mg(2+) PhoP-activated PmrD controls PmrA(BasR)/PmrB(BasS) activity post-translationally by binding to phospho-PmrA(BasR) and inhibiting its dephosphorylation but not its phosphotransfer, connecting the PhoPQ and PmrAB two-component systems and allowing for an amplified and persistent PmrAB response (Kato, 2007). [More information is available at EcoGene: EG12671]. PmrD is similar to the Salmonella enterica serovar Typhimurium PmrD, which confers resistance to polymyxin B when it is overexpressed ; in Salmonella, PmrD controls the activity of the PmrA-PmrB two-component system at a post-transcriptional level . [More information is available at EcoCyc: G7172].
UniProt Comments for PMRD	Interacts with phosphorylated BasR protein to mediate transcriptional induction of BasR-activated genes to induce polymyxin resistance in some natural isolates.
Research Articles on PMRD	**1.** we also reveal the presence of an unknown factor or system capable of activating pmrD to promote lipid A modification in the absence of the PhoPQ system
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