MRPD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPD, Polyclonal Antibody
Full Product Name	Rabbit anti-Bacillus subtilis (strain 168) MRPD Polyclonal Antibody
Product Gene Name	anti-MRPD antibody
Product Synonym Names	MRPD Antibody; Na(+)/H(+; antiporter subunit D; Mrp complex subunit D; Multiple resistance and pH homeostasis protein D; mrpD yufD BSU31630
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Bacillus subtilis (strain 168)
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	53,477 Da
3D Structure	ModBase 3D Structure for O05229
Immunogen	Recombinant Bacillus subtilis (strain 168) mrpD protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRPD antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-MRPD antibody	MBS7180486 is an antibody targeting MRPD. Also known as Rabbit anti-Bacillus subtilis (strain 168) MRPD Polyclonal Antibody. Reactive in Bacillus subtilis (strain 168). Host: Rabbit.
Other Notes	Small volumes of anti-MRPD 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 MRPD. It may not necessarily be applicable to this product.

NCBI GI #	255767720
NCBI GeneID	938858
NCBI Accession #	NP_391041.3
UniProt Primary Accession #	O05229
UniProt Secondary Accession #	O32088

UniProt Related Accession #	O05229
GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	Na(+)/H(+) antiporter subunit D
NCBI Official Symbol	mrpD
UniProt Protein Name	Na(+)/H(+) antiporter subunit D
UniProt Synonym Protein Names	Mrp complex subunit D; Multiple resistance and pH homeostasis protein D
Protein Family	Na(+)/H(+) antiporter
UniProt Gene Name	mrpD
UniProt Synonym Gene Names	yufD
NCBI Protein Information	Na(+)/H(+) antiporter subunit D
UniProt Comments for MRPD	Mrp complex is a Na+/H+ antiporter that is considered to be the major Na+ excretion system in B.subtilis. Has a major role in Na+ resistance and a minor role in Na+- and K+-dependent pH homeostasis as compared to TetB. MrpA may be the actual Na+/H+ antiporter, although the six other Mrp proteins are all required for Na+/H+ antiport activity and Na+ resistance. MrpA is required for initiation of sporulation when external Na+ concentration increases. Also transports Li+ but not K+, Ca2+ or Mg2+.
Research Articles on MRPD	**1.** Functional Differentiation of Antiporter-Like Polypeptides in Complex I; a Site-Directed Mutagenesis Study of Residues Conserved in MrpA and NuoL but Not in MrpD, NuoM, and NuoN
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