dgkA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	dgkA, Polyclonal Antibody
Full Product Name	Rabbit anti-Bacillus subtilis (strain 168) dgkA Polyclonal Antibody
Product Gene Name	anti-dgkA antibody
Product Synonym Names	dgkA Antibody; Undecaprenol kinase; UdpK; EC 2.7.1.66; dgkA dgk yqxF BSU25310
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	13,639 Da
Chromosome Location	NC_000964.3 (2611456..2611827, complement)
3D Structure	ModBase 3D Structure for P19638
Immunogen	Recombinant Bacillus subtilis (strain 168) dgkA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-dgkA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-dgkA antibody	MBS7152789 is an antibody targeting dgkA. Also known as Rabbit anti-Bacillus subtilis (strain 168) dgkA Polyclonal Antibody. Reactive in Bacillus subtilis (strain 168). Host: Rabbit.
Other Notes	Small volumes of anti-dgkA 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 dgkA. It may not necessarily be applicable to this product.

NCBI GI #	255767579
NCBI GeneID	937873
NCBI Accession #	NP_390409.2
UniProt Primary Accession #	P19638

UniProt Related Accession #	P19638
GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	undecaprenol kinase
NCBI Official Symbol	dgkA
UniProt Protein Name	Undecaprenol kinase
Protein Family	Diacylglycerol kinase
UniProt Gene Name	dgkA
UniProt Synonym Gene Names	dgk; yqxF; UdpK
UniProt Entry Name	UDPK_BACSU
NCBI Protein Information	undecaprenol kinase
UniProt Comments for dgkA	Function: Catalyzes the phosphorylation of undecaprenol in vitro, which is probably the physiological substrate. Exhibits no detectable activity against other substrates such as monoacylglycerol, ceramide, or diacylglycerol (DAG). Appears indispensable for the maintenance of spore stability and viability in B.subtilis. Ref.9 Catalytic activity: ATP + undecaprenol = ADP + undecaprenyl phosphate. Ref.9 Subcellular location: Cell membrane; Multi-pass membrane protein Potential. Note: Localized in both lateral and septal membranes. Ref.8 Induction: Mainly expressed during the vegetative phase of growth. Ref.7 Disruption phenotype: Cells lacking this gene exhibit an abnormal cortex structure in mutant endospores 6 hours after the onset of sporulation, an indication of cortex degeneration. In addition, they display a significant decrease in the dipicolinic acid content of mutant spores. Ref.7 Sequence similarities: Belongs to the bacterial diacylglycerol kinase family. Caution: Was originally (Ref.7) thought to be a diacylglycerol kinase. Sequence caution: The sequence AAA70044.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally shortened.The sequence BAA12480.1 differs from that shown. Reason: Frameshift at position 10.
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