GRPE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRPE, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli O9:H4 (strain HS) GRPE Polyclonal Antibody
Product Gene Name	anti-GRPE antibody
Product Synonym Names	GRPE Antibody; Protein GrpE; HSP-70 cofactor; grpE EcHS_A2772
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli O9:H4 (strain HS)
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	21,812 Da
3D Structure	ModBase 3D Structure for A8A3C0
Immunogen	Recombinant Escherichia coli O9:H4 (strain HS) grpE protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GRPE antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-GRPE antibody	MBS7169823 is an antibody targeting GRPE. Also known as Rabbit anti-Escherichia coli O9:H4 (strain HS) GRPE Polyclonal Antibody. Reactive in E Coli O9:H4 (strain HS). Host: Rabbit.
Other Notes	Small volumes of anti-GRPE 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 GRPE. It may not necessarily be applicable to this product.

NCBI GI #	481041934
NCBI Accession #	WP_001296310.1
UniProt Primary Accession #	A8A3C0
GenBank Nucleotide #	WP_001296310.1
NCBI Official Full Name	MULTISPECIES: nucleotide exchange factor GrpE

UniProt Protein Name	Protein GrpE
UniProt Synonym Protein Names	HSP-70 cofactor
Protein Family	Protein
UniProt Gene Name	grpE
UniProt Comments for GRPE	Participates actively in the response to hyperosmotic and heat shock by preventing the aggregation of stress-denatured proteins, in association with DnaK and GrpE. It is the nucleotide exchange factor for DnaK and may function as a thermosensor. Unfolded proteins bind initially to DnaJ; upon interaction with the DnaJ-bound protein, DnaK hydrolyzes its bound ATP, resulting in the formation of a stable complex. GrpE releases ADP from DnaK; ATP binding to DnaK triggers the release of the substrate protein, thus completing the reaction cycle. Several rounds of ATP-dependent interactions between DnaJ, DnaK and GrpE are required for fully efficient folding.
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