MSBA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSBA, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) MSBA Polyclonal Antibody
Product Gene Name	anti-MSBA antibody
Product Synonym Names	MSBA Antibody; Lipid A export ATP-binding/permease protein MsbA; EC 3.6.3.-; msbA b0914 JW0897
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	64,461 Da
Chromosome Location	NC_000913.2 (965844..967592)
3D Structure	ModBase 3D Structure for P60752
Immunogen	Recombinant Escherichia coli (strain K12) msbA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MSBA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-MSBA antibody	MBS7161209 is an antibody targeting MSBA. Also known as Rabbit anti-Escherichia coli (strain K12) MSBA Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-MSBA 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 MSBA. It may not necessarily be applicable to this product.

NCBI GI #	16128881
NCBI GeneID	945530
NCBI Accession #	NP_415434.1
UniProt Primary Accession #	P60752

UniProt Secondary Accession #	P27299
GenBank Nucleotide #	NC_000913.2
NCBI Official Full Name	fused lipid transporter subunits of ABC superfamily: membrane component/ATP-binding component
NCBI Official Symbol	msbA
NCBI Official Synonym Symbols	ECK0905; JW0897
UniProt Protein Name	Lipid A export ATP-binding/permease protein MsbA
Protein Family	Lipid A export ATP-binding/permease protein
UniProt Gene Name	msbA
UniProt Entry Name	MSBA_ECOLI
NCBI Protein Information	fused lipid transporter subunits of ABC superfamily: membrane component/ATP-binding component
NCBI Summary for MSBA	MsbA PDB structures 1JSQ, 1PF4 and 1Z2R, and any conclusions derived from these structures, have been retracted due to a software data inversion error (Chang, 2006). [More information is available at EcoGene: EG10613]. Lipid A serves as a hydrophobic membrane anchor for the lipopolysaccharide, which is a major component of the outer leaflet of the outer membranes of Gram-negative bacteria. [More information is available at EcoCyc: EG10613].
UniProt Comments for MSBA	Function: Involved in lipid A export and possibly also in glycerophospholipid export and for biogenesis of the outer membrane. Transmembrane domains (TMD) form a pore in the inner membrane and the ATP-binding domain (NBD) is responsible for energy generation. Subunit structure: Homodimer By similarity. Subcellular location: Cell inner membrane; Multi-pass membrane protein Ref.7 Ref.9. Domain: In MsbA the ATP-binding domain (NBD) and the transmembrane domain (TMD) are fused. Sequence similarities: Belongs to the ABC transporter superfamily. Lipid exporter (TC 3.A.1.106) family. [View classification]Contains 1 ABC transmembrane type-1 domain.Contains 1 ABC transporter domain.
Research Articles on MSBA	**1.** Data show that the isolated MsbA nucleotide-binding domain hydrolyzed ATP with V(max) = 45 nmol mg(-1) min(-1), similar to the full-length transporter.
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