CYDA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYDA, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) CYDA Polyclonal Antibody
Product Gene Name	anti-CYDA antibody
Product Synonym Names	CYDA Antibody; Cytochrome bd-I ubiquinol oxidase subunit 1; EC 1.10.3.14; Cytochrome bd-I oxidase subunit I; Cytochrome d ubiquinol oxidase subunit I; cydA cyd-1 b0733 JW0722
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	58,205 Da
3D Structure	ModBase 3D Structure for P0ABJ9
Immunogen	Recombinant Escherichia coli (strain K12) cydA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYDA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-CYDA antibody	MBS7165742 is an antibody targeting CYDA. Also known as Rabbit anti-Escherichia coli (strain K12) CYDA Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-CYDA 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 CYDA. It may not necessarily be applicable to this product.

NCBI GI #	90111166
NCBI GeneID	945341
NCBI Accession #	NP_415261.2
UniProt Primary Accession #	P0ABJ9
UniProt Secondary Accession #	P11026; P75754; P76823

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	cytochrome d terminal oxidase, subunit I
NCBI Official Symbol	cydA
NCBI Official Synonym Symbols	ECK0721; JW0722
UniProt Protein Name	Cytochrome bd-I ubiquinol oxidase subunit 1
UniProt Synonym Protein Names	Cytochrome bd-I oxidase subunit I; Cytochrome d ubiquinol oxidase subunit I
Protein Family	Cytochrome bd-I ubiquinol oxidase
UniProt Gene Name	cydA
UniProt Synonym Gene Names	cyd-1
NCBI Protein Information	cytochrome d terminal oxidase, subunit I
NCBI Summary for CYDA	H-NS, Fnr and ArcA regulons. [More information is available at EcoGene: EG10173]. CydA contains the heme b558 component of cytochrome bd-I . [More information is available at EcoCyc: EG10173].
UniProt Comments for CYDA	A terminal oxidase that produces a proton motive force by the vectorial transfer of protons across the inner membrane. It is the component of the aerobic respiratory chain of E.coli that predominates when cells are grown at low aeration. Generates a proton motive force using protons and electrons from opposite sides of the membrane to generate H2O, transferring 1 proton/electron.
Research Articles on CYDA	**1.** Cytochrome bd oxidases split the O-O bond in a single four-electron transfer reaction without a peroxide intermediate.
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