CYDD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYDD, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) CYDD Polyclonal Antibody
Product Gene Name	anti-CYDD antibody
Product Synonym Names	CYDD Antibody; ATP-binding/permease protein CydD cydD htrD b0887 JW0870
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	65,056 Da
Chromosome Location	NC_000913.2 (928419..930185, complement)
3D Structure	ModBase 3D Structure for P29018
Immunogen	Recombinant Escherichia coli (strain K12) cydD protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYDD antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-CYDD antibody	MBS7155097 is an antibody targeting CYDD. Also known as Rabbit anti-Escherichia coli (strain K12) CYDD Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-CYDD 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 CYDD. It may not necessarily be applicable to this product.

NCBI GI #	16128854
NCBI GeneID	949052
NCBI Accession #	NP_415407.1
UniProt Primary Accession #	P29018

UniProt Secondary Accession #	P77275; Q47656
GenBank Nucleotide #	NC_000913.2
NCBI Official Full Name	fused glutathione, cysteine exporter subunits of ABC superfamily: membrane component/ATP-binding component
NCBI Official Symbol	cydD
NCBI Official Synonym Symbols	ECK0878; htrD; JW0870
UniProt Protein Name	ATP-binding/permease protein CydD
Protein Family	ATP-binding/permease protein
UniProt Gene Name	cydD
UniProt Synonym Gene Names	htrD
UniProt Entry Name	CYDD_ECOLI
NCBI Protein Information	fused glutathione, cysteine exporter subunits of ABC superfamily: membrane component/ATP-binding component
NCBI Summary for CYDD	Translation start site verified by start codon mutagenesis (Cruz-Ramos, 2004). [More information is available at EcoGene: EG11405]. The cydDC operon encodes two ATP-binding cassette (ABC) transporter proteins that are most closely similar to ABC transporters involved in export . [More information is available at EcoCyc: EG11405].
UniProt Comments for CYDD	Function: Somehow involved in the cytochrome D branch of aerobic respiration. Seems to be a component of a transport system. Subcellular location: Cell inner membrane; Multi-pass membrane protein Ref.8. Miscellaneous: Required for growth at high temperatures. Sequence similarities: Belongs to the ABC transporter superfamily. Cysteine exporter (TC 3.A.1.129.1) family. [View classification]Contains 1 ABC transmembrane type-1 domain.Contains 1 ABC transporter domain. Sequence caution: The sequence AAA23995.1 differs from that shown. Reason: Frameshift at position 102.
Research Articles on CYDD	**1.** CydDC is the first prokaryotic GSH transporter, and it exports reductant to the periplasm
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