# CYDA Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CYDA, Polyclonal Antibody |
| **Full Product Name** | Rabbit anti-Shigella flexneri 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 SF0564 S0577 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Shigella flexneri |
| **Form/Format** | Liquid<br>Preservative: 0.03% Proclin 300<br>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 |
| **Chromosome Location** | NC_004337.2 (584206..585777, complement) |
| **3D Structure** | ModBase 3D Structure for P0ABK1 |
| **Immunogen** | Recombinant Shigella flexneri 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** | MBS7165743 is an antibody targeting CYDA. Also known as Rabbit anti-Shigella flexneri CYDA Polyclonal Antibody. Reactive in Shigella flexneri. 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.

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| **NCBI GI #** | 24111991 |
| **NCBI GeneID** | 1023517 |
| **NCBI Accession #** | NP_706501.1 |
| **UniProt Primary Accession #** | P0ABK1 |

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| **UniProt Secondary Accession #** | P11026; P75754; P76823 |
| **GenBank Nucleotide #** | NC_004337.2 |
| **NCBI Official Full Name** | cytochrome d terminal oxidase subunit 1 |
| **NCBI Official Symbol** | cydA |
| **UniProt Protein Name** | Cytochrome d 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 Entry Name** | CYDA_SHIFL |
| **NCBI Protein Information** | cytochrome d terminal oxidase subunit 1 |
| **UniProt Comments for CYDA** | Function: Cytochrome d terminal oxidase complex is the component of the aerobic respiratory chain that predominates when cells are grown at low aeration<br><br>By similarity.<br><br>Catalytic activity: Ubiquinol-8 + O2 = Ubiquinone-8 + H2O.<br><br>Cofactor: Binds 1 protoheme IX group<br><br>By similarity.<br><br>Pathway: Energy metabolism; oxidative phosphorylation.<br><br>Subunit structure: Heterodimer of subunits I and II<br><br>By similarity.<br><br>Subcellular location: Cell inner membrane; Multi-pass membrane protein<br><br>By similarity.<br><br>Sequence similarities: Belongs to the cytochrome ubiquinol oxidase subunit 1 family.<br><br>Sequence caution: The sequence AAN42208.1 differs from that shown. Reason: Erroneous initiation. The sequence AAP16081.1 differs from that shown. Reason: Erroneous initiation. |
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