NADA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NADA, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) NADA Polyclonal Antibody
Product Gene Name	anti-NADA antibody
Product Synonym Names	NADA Antibody; Quinolinate synthase A; EC 2.5.1.72; nadA nicA b0750 JW0733
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	38,241 Da
3D Structure	ModBase 3D Structure for P11458
Immunogen	Recombinant Escherichia coli (strain K12) nadA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NADA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-NADA antibody	MBS7152149 is an antibody targeting NADA. Also known as Rabbit anti-Escherichia coli (strain K12) NADA Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-NADA 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 NADA. It may not necessarily be applicable to this product.

NCBI GI #	16128718
NCBI GeneID	945351
NCBI Accession #	NP_415271.1
UniProt Primary Accession #	P11458
UniProt Secondary Accession #	P77373

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	quinolinate synthase, subunit A
NCBI Official Symbol	nadA
NCBI Official Synonym Symbols	ECK0739; JW0733; nicA
UniProt Protein Name	Quinolinate synthase A
Protein Family	Quinolinate synthase
UniProt Gene Name	nadA
UniProt Synonym Gene Names	nicA
NCBI Protein Information	quinolinate synthase, subunit A
NCBI Summary for NADA	C291 and C294 form a reversible disulfide bond that regulates NadA activity (Saunders, 2008). [More information is available at EcoGene: EG10630]. Quinolinate synthase catalyzes the second reaction in the de novo biosynthesis of NAD from aspartate, the condensation of iminosuccinate with dihydroxyacetone phosphate to form quinolinate. [More information is available at EcoCyc: EG10630].
UniProt Comments for NADA	Catalyzes the condensation of iminoaspartate with dihydroxyacetone phosphate to form quinolinate.
Research Articles on NADA	**1.** These studies reveal that only three cysteine residues, the conserved Cys113, Cys200 and Cys297, are ligands of the NadA [4Fe-4S] cluster.
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