TSAD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSAD, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) TSAD Polyclonal Antibody
Product Gene Name	anti-TSAD antibody
Product Synonym Names	TSAD Antibody; tRNA N6-adenosine threonylcarbamoyltransferase; EC 2.3.1.234; N6-L-threonylcarbamoyladenine synthase; t(6)A synthase; t(6)A37 threonylcarbamoyladenosine biosynthesis protein TsaD; tRNA threonylcarbamoyladenosine biosynthesis protein TsaD; tsaD gcp ygjD b3064 JW3036
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	36,008 Da
3D Structure	ModBase 3D Structure for P05852
Immunogen	Recombinant Escherichia coli (strain K12) tsaD protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TSAD antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-TSAD antibody	MBS7162144 is an antibody targeting TSAD. Also known as Rabbit anti-Escherichia coli (strain K12) TSAD Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-TSAD 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 TSAD. It may not necessarily be applicable to this product.

NCBI GI #	16130960
NCBI GeneID	947578
NCBI Accession #	NP_417536.1
UniProt Primary Accession #	P05852

UniProt Secondary Accession #	Q2M9E1
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	tRNA(ANN) t(6)A37 threonylcarbamoyladenosine modification protein; glycation binding protein
NCBI Official Symbol	tsaD
NCBI Official Synonym Symbols	ECK3054; gcp; JW3036; ygjD
UniProt Protein Name	tRNA N6-adenosine threonylcarbamoyltransferase
UniProt Synonym Protein Names	N6-L-threonylcarbamoyladenine synthase
Protein Family	4-(hydroxymethyl)benzenesulfonate dehydrogenase
UniProt Gene Name	tsaD
UniProt Synonym Gene Names	t(6)A synthase
NCBI Protein Information	tRNA(ANN) t(6)A37 threonylcarbamoyladenosine modification protein; glycation binding protein
NCBI Summary for TSAD	The protein is essential for growth . [More information is available at EcoCyc: EG11171].
UniProt Comments for TSAD	Required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs that read codons beginning with adenine. Is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37, together with TsaE and TsaB. TsaD likely plays a direct catalytic role in this reaction. May also be involved in the metabolism of glycated proteins, but does not show sialoglycoprotease activity against glycophorin A.
Research Articles on TSAD	**1.** in bacteria four proteins (YgjD, YrdC, YjeE, and YeaZ) are both necessary and sufficient for t(6)A biosynthesis in vitro
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