# TSAD Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | TSAD, Polyclonal Antibody |
| **Full Product Name** | Rabbit anti-Escherichia coli (strain 8739/DSM 1576/Crooks) 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 EcolC_0635 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | E Coli (strain 8739/DSM 1576/Crooks) |
| **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** | 36,007 Da |
| **3D Structure** | ModBase 3D Structure for B1IRQ2 |
| **Immunogen** | Recombinant Escherichia coli (strain 8739 / DSM 1576 / Crooks) 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** | MBS7184066 is an antibody targeting TSAD. Also known as Rabbit anti-Escherichia coli (strain 8739/DSM 1576/Crooks) TSAD Polyclonal Antibody. Reactive in E Coli (strain 8739/DSM 1576/Crooks). 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.

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| **NCBI GI #** | 447187109 |
| **NCBI Accession #** | WP_001264365.1 |
| **UniProt Primary Accession #** | B1IRQ2 |
| **GenBank Nucleotide #** | WP_001264365.1 |

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| **NCBI Official Full Name** | MULTISPECIES: tRNA (adenosine(37)-N6)-threonylcarbamoyltransferase complex transferase subunit TsaD |
| **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 |
| **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 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. |
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