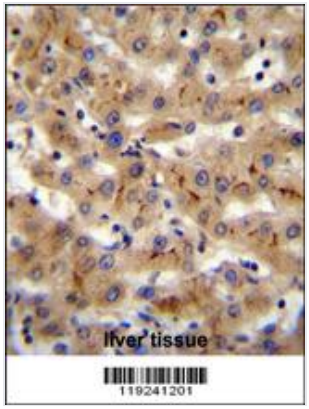
# CSAD Antibody – Rabbit Polyclonal

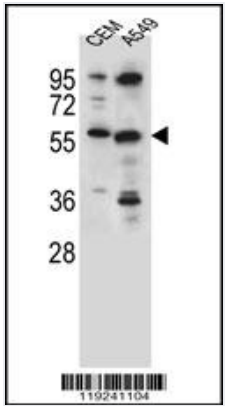
## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | CSAD, Polyclonal Antibody |
| **Full Product Name** | CSAD Antibody (Center) |
| **Product Gene Name** | anti-CSAD antibody |
| **Product Synonym Names** | Cysteine sulfinic acid decarboxylase; Cysteine-sulfinate decarboxylase; Sulfinoalanine decarboxylase; CSAD; CSD |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Purity/Purification** | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 0.5 (lot specific) |
| **Specificity** | This CSAD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-226 amino acids from the Central region of human CSAD. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | CSAD peptide (MBS9218626) is used for blocking the activity of CSAD antibody (MBS9214387) |
| **Molecular Weight** | 55023 |
| **Immunogen Sequence Positions** | 197-226 |
| **3D Structure** | ModBase 3D Structure for Q9Y600 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Product Categories/Family for anti-CSAD antibody** | Metabolism; Neuroscience; Signal Transduction |
| **Applications Tested/Suitable for anti-CSAD antibody** | ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-CSAD antibody** | IHC~~1:50~100<br>WB~~1:1000 |
| **Related Product Information for anti-CSAD antibody** | Cysteine sulfinic acid decarboxylase (CSAD) catalyses the penultimate and rate limiting step of taurine synthesis. Taurine is an amino sulphonic acid and is one of the most abundant amino acids in the brain. It has been found to be essential to a number of biological processes such as development of the brain and eye, reproduction, diabetes, osmoregulation as well as the anti-inflammatory activity of leukocytes. |
| **Product References and Citations for anti-CSAD antibody** | Park, E., et al. Biochim. Biophys. Acta 1574(3):403-406(2002) |
| **Other Notes** | Small volumes of anti-CSAD 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. |

| | |
|---|---|
| **Searchable Terms for CSAD purchase** | MBS9214387 is an antibody targeting CSAD. Also known as CSAD Antibody (Center). Reactive in Human. Host: Rabbit. |




**Immunohistochemistry (IHC) of anti-CSAD antibody**
CSAD Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CSAD Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.




**Western Blot (WB) of anti-CSAD antibody**
CSAD Antibody (Center) western blot analysis in CEM,A549 cell line lysates (35ug/lane).This demonstrates the CSAD antibody detected the CSAD protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSAD. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 347659021 |
| **NCBI GeneID** | 51380 |
| **NCBI Accession #** | NP_001231634.1 |
| **NCBI Related Accession #** | NP_057073.4 |
| **UniProt Primary Accession #** | Q9Y600 |
| **UniProt Secondary Accession #** | Q4QQH9; Q9UNJ5; Q9Y601; A8K0U4 |
| **UniProt Related Accession #** | Q9Y600 |
| **GenBank Nucleotide #** | NM_001244705.1 |
| **NCBI Official Full Name** | cysteine sulfinic acid decarboxylase isoform 2 |
| **NCBI Official Synonym Full Names** | cysteine sulfinic acid decarboxylase |
| **NCBI Official Symbol** | CSAD |
| **NCBI Official Synonym Symbols** | CSD; PCAP |
| **UniProt Protein Name** | Cysteine sulfinic acid decarboxylase |
| **UniProt Synonym Protein Names** | Cysteine-sulfinate decarboxylase; Sulfinoalanine decarboxylase |
| **Protein Family** | Cysteine sulfinic acid decarboxylase |
| **UniProt Gene Name** | CSAD |
| **UniProt Synonym Gene Names** | CSD |
| **UniProt Entry Name** | CSAD_HUMAN |
| **NCBI Protein Information** | cysteine sulfinic acid decarboxylase |

| | |
|---|---|
| **NCBI Summary for CSAD** | This gene encodes a member of the group 2 decarboxylase family. A similar protein in rodents plays a role in multiple biological processes as the rate-limiting enzyme in taurine biosynthesis, catalyzing the decarboxylation of cysteinesulfinate to hypotaurine. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011] |
| **UniProt Comments for CSAD** | CSAD: a member of the group 2 decarboxylase family. A similar protein in rodents plays a role in multiple biological processes as the rate-limiting enzyme in taurine biosynthesis, catalyzing the decarboxylation of cysteinesulfinate to hypotaurine. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]<br><br>Protein type: Other Amino Acids Metabolism - taurine and hypotaurine; EC 4.1.1.29; Lyase<br><br>Chromosomal Location of Human Ortholog: 12q13.11-q14.3<br><br>Molecular Function: sulfinoalanine decarboxylase activity; pyridoxal phosphate binding<br><br>Biological Process: sulfur amino acid metabolic process; sulfur amino acid catabolic process; taurine biosynthetic process |
| **Research Articles on CSAD** | **1.** The presence of cysteine inhibited ADC, CSAD and GDC activity. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/csad/9214387