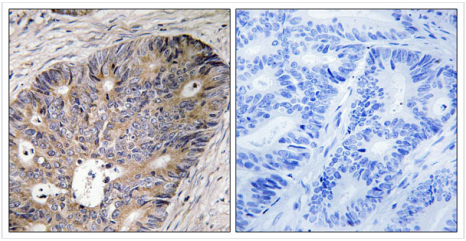
CAD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAD, Polyclonal Antibody
Full Product Name	CAD Antibody
Product Gene Name	anti-CAD antibody
Product Synonym Names	CAD protein; glutamine-dependent carbamoyl-phosphate synthase; PYR1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	CAD Antibody detects endogenous levels of total CAD protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	242 kDa
OMIM	D78586 mRNA
3D Structure	ModBase 3D Structure for P27708
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human CAD.
Immunogen Range	422-471
Applications Tested/Suitable for anti-CAD antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CAD antibody	IHC: 1:50~1:100 ELISA: 1:20000
Related Product Information for anti-CAD antibody	MBS9504451 is an antibody targeting CAD. Also known as CAD Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CAD 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.



Immunohistochemistry (IHC) of anti-CAD antibody
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using CAD Antibody. The picture on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

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

NCBI GI #	807045910
NCBI GeneID	790
NCBI Accession #	NP_001293008.1
UniProt Primary Accession #	P27708
UniProt Secondary Accession #	Q6P0Q0; Q96CK3; D6W552
UniProt Related Accession #	P27708
GenBank Nucleotide #	NM_001306079.1
NCBI Official Full Name	CAD protein isoform 2
NCBI Official Synonym Full Names	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
NCBI Official Symbol	CAD
NCBI Official Synonym Symbols	CDG1Z; GATD4; EIEE50
UniProt Protein Name	CAD protein
Protein Family	CAD protein
UniProt Gene Name	CAD
NCBI Protein Information	CAD protein
NCBI Summary for CAD	The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis: carbamoylphosphate synthetase (CPS II), aspartate transcarbamoylase, and dihydroorotase. This protein is regulated by the mitogen-activated protein kinase (MAPK) cascade, which indicates a direct link between activation of the MAPK cascade and de novo biosynthesis of pyrimidine nucleotides. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]
UniProt Comments for CAD	This protein is a "fusion" protein encoding four enzymatic activities of the pyrimidine pathway (GATase, CPSase, ATCase and DHOase).
Research Articles on CAD	**1.** Charge neutralization in the active site of the catalytic trimer of aspartate transcarbamoylase promotes diverse structural changes.
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. 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-mouse-antibody/cad/9504451