CAD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAD, Polyclonal Antibody
Full Product Name	Phospho-CAD (Ser1859) Antibody
Product Gene Name	anti-CAD antibody
Product Synonym Names	Aspartate carbamoyltransferase; Aspartate transcarbamylase; CAD protein; CAD trifunctional protein; Carbamoyl phosphate synthetase 2; CPSase ATCase DHOase; Dihydroorotase; Glutamine dependent carbamoyl phosphate synthase; Multifunctional protein CAD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Molecular Weight	240kDa
OMIM	114010
3D Structure	ModBase 3D Structure for P27708
Immunogen	A synthesized peptide derived from human CAD around the phosphorylation site of Ser1859
Storage Buffer	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CAD antibody	Western Blot (WB)
Application Notes for anti-CAD antibody	WB: 1:500-1:2000
Related Product Information for anti-CAD antibody	MBS8529047 is an antibody targeting CAD. Also known as Phospho-CAD (Ser1859) Antibody. Reactive in Human, Mouse, Rat. 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.

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.** CAD dihydroorotase and aspartate transcarbamoylase domains self-assembles into dimers and trimers.
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