

Rabbit CAD Polyclonal Antibody | anti-CAD antibody

CAD Antibody (Center)

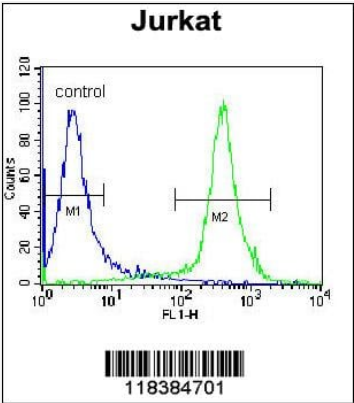
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287846	Rabbit	Human (Predicted Reactivity: Mouse)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

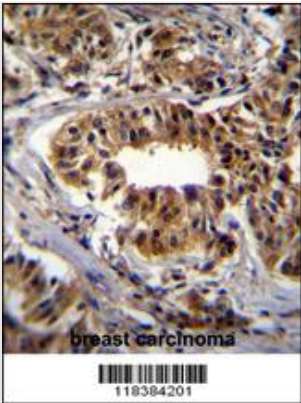
CAD; Polyclonal Antibody; CAD Antibody (Center); CAD protein; Glutamine-dependent carbamoyl-phosphate synthase; Aspartate carbamoyltransferase; Dihydroorotase; anti-CAD antibody

PRODUCT SPECIFICATIONS

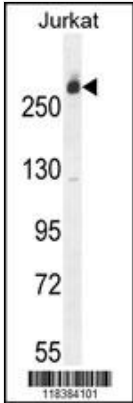
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CAD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 780-809 amino acids from the Central region of human CAD.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
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.
Concentration	Vial Concentration: 0.29 (varies by lot)
Sequence Positions	780-809
Sequence Length	2,225
Applicable Applications for anti-CAD antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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.



FCM/FACS (Flow Cytometry)
CAD Antibody (Center) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
CAD Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CAD Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
CAD Antibody (Center) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the CAD antibody detected the CAD protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CAD antibody	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.
Product Categories/Family for anti-CAD antibody	Cell Biology; Metabolism
References	Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) : Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Ahuja, V., et al. J. Inherit. Metab. Dis. 31(4):481-491(2008) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	18105007
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NCBI GeneID	790
NCBI Accession #	NP_004332.2
NCBI GenBank Nucleotide #	NM_004341.4
UniProt Accession #	P27708; Q6P0Q0; Q96CK3; D6W552
Molecular Weight	242984
NCBI Official Full Name	CAD protein isoform 1
NCBI Official Synonym Full Names	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
NCBI Official Symbol	CAD
NCBI Protein Information	CAD protein
UniProt Protein Name	CAD protein
UniProt Gene Name	CAD
UniProt Entry Name	PYR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cad-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287846>