



Anti-CAD polyclonal antibody (CABT-BL827)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) corresponding to a region within residues 1650 - 1700 of Human CAD
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P
Cellular Localization	Cytoplasmic and Nuclear
Format	Liquid
Buffer	0.1% BSA, Tris buffered saline
Preservative	0.09% Sodium Azide
Storage	Store at +4°C.

BACKGROUND

Introduction	Carbamoyl phosphate synthetase-aspartate carbamoyltransferase-dihydroorotase (CAD) is a multifunctional protein that initiates and regulates mammalian de novo pyrimidine biosynthesis. This trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis is the rate-limiting step in the de novo pyrimidine synthetic pathway. Although most of the CAD protein in the cell is cytosolic,
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phosphorylation at threonine 456 localizes the protein to the nucleus. While MAPK and EGF phosphorylate CAD at threonine 456, MAPK and c-myc have been found to induce over-expression of CAD.

GENE INFORMATION

Entrez Gene ID	790
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Protein Refseq	NP_004332
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UniProt ID	P27708
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