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CAD Polyclonal Antibody

Catalog No	YP-Ab-00339
Isotype	lgG
Reactivity	Human;Mouse
Applications	IHC;IF;ELISA
Gene Name	CAD
Protein Name	CAD protein
Immunogen	The antiserum was produced against synthesized peptide derived from human CAD. AA range:422-471
Specificity	CAD Polyclonal Antibody detects endogenous levels of CAD protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/20000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAD; CAD protein
Observed Band	250kD
Cell Pathway	Cytoplasm . Nucleus . Cytosolic and unphosphorylated in resting cells, translocates to the nucleus in response to EGF stimulation, nuclear import promotes optimal cell growth.
Tissue Specificity	Colon adenocarcinoma,Epithe
Function	catalytic activity:(S)-dihydroorotate + H(2)O = N-carbamoyl-L-aspartate.,catalytic activity:2 ATP + L-glutamine + HCO(3)(-) + H(2)O = 2 ADP + phosphate + L-glutamate + carbamoyl phosphate.,catalytic activity:Carbamoyl phosphate + L-aspartate = phosphate + N-carbamoyl-L-aspartate.,cofactor:Binds 1 zinc ion per subunit (for dihydroorotase activity) .,enzyme regulation:Allosterically regulated and controlled by phosphorylation. 5-phosphoribose 1-diphosphate is an activator while UMP is an inhibitor of the CPSase reaction.,function:This protein is a "fusion" protein encoding four enzymatic activities of the pyrimidine pathway (GATase, CPSase, ATCase and DHOase).,miscellaneous:GATase (glutamine amidotransferase) and CPSase (GD-CPSase) (EC 6.3.5.5).,online information:Aspartate carbamoyltransferase entry,pathway:Pyrimi



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BackgroundThe 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],matters needing
attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.

Products Images



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

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