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Product datasheet for TA339269

CAD Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CAD antibody: synthetic peptide directed towards the N terminal of human CAD. Synthetic peptide located within the following region: AALVLEDGSVLRGQPFGAAVSTAGEVVFQTGMVGYPEALTDPSYKAQILV
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. *Note that this product is shipped as lyophilized powder to China customers.*
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	243 kDa
Gene Name:	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
Database Link:	NP_004332 Entrez Gene 790 Human P27708

View online »

Background: 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. [provided by RefSeq, Jul 2008]

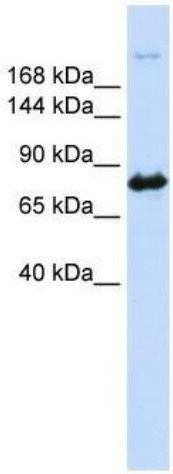
Synonyms: and dihydroorotase; aspartate transcarbamylase; CAD trifunctional protein; carbamoyl-phosphate synthetase 2; carbamoylphosphate synthetase 2; dihydroorotase; multifunctional protein CAD

Note: Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Guinea pig: 100%; Rabbit: 93%; Zebrafish: 93%; Sheep: 86%

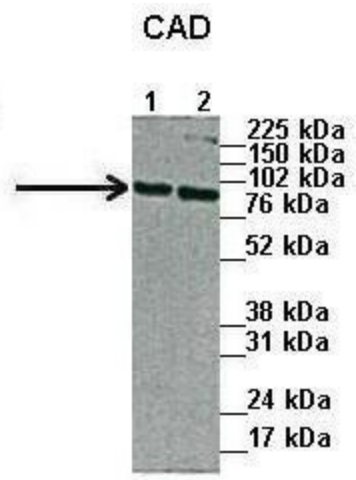
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Pyrimidine metabolism

Product images:



WB Suggested Anti-CAD Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 62500; Positive Control: 293T cell lysate



Lanes: 1. 45ug capan1 cell lysate; 2. 45 ug HPAF cell lysate; Primary Antibody Dilution: 1: 1000; Secondary Antibody: Anti-Rabbit HRP; Secondary Antibody Dilution: 1: 5000; Gene Name: CAD; Submitted by: Dr. Pankaj Singh, UNMC, Omaha, NE;