

## **Product datasheet for TA339268**

# 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 C terminal of

human CAD. Synthetic peptide located within the following region: ADVVVLRHPQPGAVELAAKHCRRPVINAGDGVGEHPTQALLDIFTIREEL

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



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#### CAD Rabbit Polyclonal Antibody - TA339268

**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

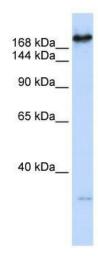
Note: Immunogen Sequence Homology: Dog: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse:

100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Pig: 93%; Guinea pig: 93%; Yeast: 92%

**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: 312500; Positive Control: Human Lung