

Product datasheet for AP50710PU-N

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OriGene Technologies, Inc.

CAD (Center) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: ELISA: 1/1000.

Western blot: 1/100 - 1/500.

Immunohistochemistry on paraffin sections: 1/10 - 1/50.

Reactivity: Human
Host: Rabbit
Isotype: Ig

Clonality: Polyclonal

Immunogen: KLH conjugated synthetic peptide between 787-816 amino acids from the Central region of

human CAD

Specificity: This antibody reacts to CAD.

Formulation: PBS

State: Aff - Purified

State: Liquid purified Ig fraction

Preservative: 0.09% (W/V) sodium azide

Concentration: lot specific

Purification: Affinity chromatography on Protein A

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 242984 Da

Gene Name: carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase

Database Link: Entrez Gene 790 Human

P27708



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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

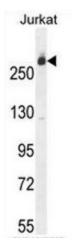
pyrimidine nucleotides.

Synonyms: Dihydroorotase, GATase, ACTase, DHOase

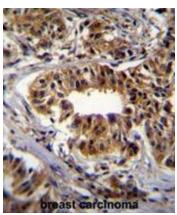
Protein Families: Druggable Genome

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

Product images:



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



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.