

Product datasheet for AP55807PU-S

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CAD pThr456 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC

Recommended Dilution: Immunohistochemistry on paraffin sections: 1:50~1:100.

Reactivity: Human, Mouse

Host: Rabbit
Clonality: Polyclonal

Immunogen: Peptide sequence around phosphorylation site of threonine 456 (P-I-T(p)-P-H) derived from

Human CAD (KLH-conjugated)

Specificity: The antibody detects endogenous levels of CAD only when phosphorylated at threonine 456.

Formulation: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,

0.02% sodium azide and 50% glycerol

State: Aff - Purified State: Liquid Ig fraction

Concentration: lot specific

Purification: Affinity chromatography using epitope-specific peptide

Conjugation: Unconjugated

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 242 kDa

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

Database Link: Entrez Gene 790 Human

P27708



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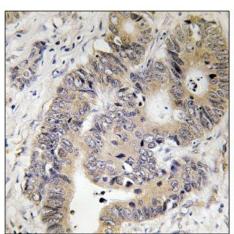
Background:

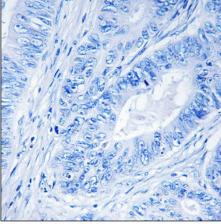
The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis: carbamoylphosphate synthetase (CPS II), 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

Product images:





Immunohistochemical analysis of paraffinembedded human colon carcinoma tissue using CAD (Phospho-Thr456) Antibody (left)or the same antibody preincubated with blocking peptide (right).