

CAD (Phospho Ser1859) Rabbit pAb

CatalogNo: YP1284

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 250kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human CAD (Ser1859)

Specificity This antibody detects endogenous levels of Human Mouse Rat CAD (phospho-Ser1859)

Target Information

Gene name CAD

Protein Name CAD (Ser1859)

Organism	Gene ID	UniProt ID
Human	790 ;	P27708 ;

Cellular Localization 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 (carbamoyl phosphate synthase) form together the glutamine-dependent CPSase (GD-CPSase) (EC 6.3.5.5) . ,online information:Aspartate carbamoyltransferase entry ,pathway:Pyrimidine metabolism; UMP biosynthesis via de novo pathway; UMP from HCO (3) (-) : step 1/6. ,pathway:Pyrimidine metabolism; UMP biosynthesis via de novo pathway; UMP from HCO (3) (-) : step 2/6. ,pathway:Pyrimidine metabolism; UMP biosynthesis via de novo pathway; UMP from HCO (3) (-) : step 3/6. ,similarity:Belongs to the ATCase/OTCase family. ,similarity:Contains 1 glutamine amidotransferase type-1 domain. ,similarity:Contains 2 ATP-grasp domains. ,similarity:In the central section; belongs to the DHOase family. ,subunit:Homohexamer. ,

Validation Data

Contact information

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CAD (Phospho Ser1859) Rabbit pAb

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