Product Datasheet

CAD (Phospho-Thr456) Antibody

Catalog No: #11789

Package Size: #11789-1 50ul #11789-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

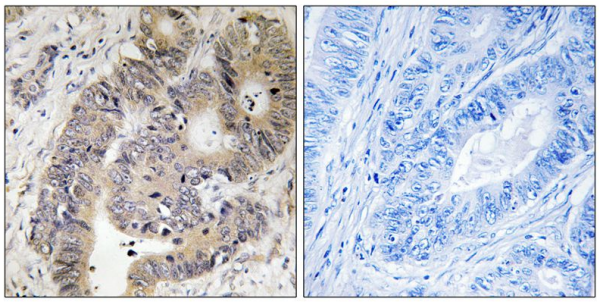
Description

Product Name	CAD (Phospho-Thr456) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of CAD only when phosphorylated at threonine 456.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 456 (P-I-T(p)-P-H) derived from Human CAD.
Target Name	CAD
Modification	Phospho
Other Names	PYR1; CAD protein; EC 2.1.3.2; EC 3.5.2.3;
Accession No.	Swiss-Prot#: P27708; NCBI Gene#: 790; NCBI Protein#: NP_004332.2.
Uniprot	P27708
GeneID	790;
SDS-PAGE MW	242kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using CAD (Phospho-Thr456) antibody #11789 (left)or the same antibody preincubated with blocking peptide (right).

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.

Iwahana H., Biochem. Biophys. Res. Commun. 219:249-255(1996).

Davidson J.N., DNA Cell Biol. 9:667-676(1990).

Olsen J.V., Cell 127:635-648(2006).

Note: This product is for in vitro research use only