

## Phospho-CAD (T456) Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-PHS01083
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CAD around the phosphorylation site of Thr456. AA range:422-471
<b>Mol wt</b>	242984
<b>Species reactivity</b>	Human, mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Phospho-CAD (T456) Antibody
<b>Synonyms</b>	CAD; CAD protein

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. CAD (carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase) 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. Alternative splicing results in multiple transcript variants encoding different isoforms.

### Recommended Dilution

IHC: 1: 100 - 1: 300

ELISA: 1: 5000

Not yet tested in other applications.

### Images

No images.

### Storage

-20°C for one year