



Product Specification Sheet

Human Carboxyl Terminal Modulator Protein (CTMP) Antibodies

Cat. CTMP12-S

Rabbit Anti-Human CTMP protein Antiserum

SIZE: 100 ul

FORM: Soln

Lyophilized

Protein kinase B (PKB) is a major downstream target of receptor tyrosine kinases that signal via phosphatidylinositol 3-kinase (PIK3). Upon cell stimulation, PKB is translocated to the plasma membrane, where it is **phosphorylated on thr308** in the catalytic domain and **ser473** in the C-terminal regulatory domain. Several protein partners for PKB have been identified. **CTMP, a carboxyl terminal modulator protein**, binds to PKB- α and negatively regulates PKB activity by inhibiting phosphorylation of these PKB residues. CTMP (mouse 248-aa, human 240-aa, chromosome 1q21, **22-26 kDa**) predominantly expressed in skeletal muscle, testis, uterus, brain, and kidney, with lower levels in heart, liver, and lung. The presence of multiple transcripts suggested that CTMP undergoes alternative splicing.

Sources of antigen and antibodies

Antigen	Human CTMP recombinant purified protein ~27 kda
Ab Host/type	Rabbit, Polyclonal unpurified antiserum (#CTMP12-S)
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

100ul solution lyophilized powder

Supplied in Buffer: 0.05% azide

Reconstitute powder in 100 ul PBS

Affinity pure IgG

100 ug/100ul solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% BSA

Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder

Supplied in Buffer: PBS pH 7.5,

Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C..

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K for antierum using Chemiluminescence technique).

ELISA (1:10K-1:100K; using 50-100 ng of control antigen/well).

Histochemistry & Immunofluorescence: not tested.

Specificity & Cross-reactivity

Anti-CTMP reacts with the human recombinant CTMP protein in ELISA, western and dot blots. Antibody crossreactivity in various species is not known.

General References: (1) Maria S-M et al (2001) Science 294, 374-380.

*This product is for in vitro research use only.

Related material available from ADI:

Antibodies against AKT1, AKT2, AKT3

Western Blot recycling kit (Use the same blot to probe with multiple antibodies AKT1, AKT or AKT3,) **recycle blot at room temp in 5-10 min;** No mercaptoethanol or heating required).

CTMP12-S

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