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CTMP Antibody

Store at -20C
#4612

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 22, 26	Source/Isotype: Rabbit	UniProt ID: #Q5T1C6	Entrez-Gene Id: 117145
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CTMP Antibody detects endogenous levels of total CTMP protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human CTMP. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Carboxyl-terminal modulator protein (CTMP) is a negative regulator of Akt and was identified as an Akt binding protein. Akt, also referred to as PKB or Rac, plays a critical role in controlling the balance between survival and apoptosis (1-3). This protein kinase, activated by insulin and various growth and survival factors, functions in a wortmannin-sensitive pathway involving PI3 kinase (2,3). Akt is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 (4), and by phosphorylation within the carboxy-terminus at Ser473. CTMP binds to the regulatory domain of Akt at the carboxy terminus of the protein and inhibits phosphorylation on Thr308 and Ser473 (5).

Background References

1. Franke, T. F. et al. (1997) *Cell* 88, 435-437.
2. Burgering, B.M. and Coffey, P.J. (1995) *Nature* 376, 599-602.
3. Franke, T. F. et al. (1995) *Cell* 81, 727-736.
4. Alessi, D. R. et al. (1996) *EMBO J.* 15, 6541-6551.
5. Maira, S. M. et al. (2001) *Science* 294, 374-380.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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