| Store at -20C | CTMP Antibody | | Cell Signaling TECHNOLOGY® | |
|---------------|---------------|-----------------------------|--|--|
| Store | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| 2 | | Support: | 877-678-TECH (8324) | |
| #4612 | | Web: | info@cellsignal.com cellsignal.com | |
| # | | 3 Trask Lane Danvers Ma | ssachusetts 01923 USA | |

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

| Applications: WB, IP | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 22, 26 | Source: Rabbit | UniProt ID: #Q5T1C6 | Entrez-Gene Id: 117145 | | | |
|---------------------------|-----------------------------|---|---|--|------------------------|---------------------------|--|--|--|
| Product Usage | Aţ | oplication | | | Dilution | | | | |
| Information | W | estern Blotting | | | 1:1000 | | | | |
| | Im | munoprecipitation | | | 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 / Sensit | tivity CT | 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 Refer | 2. E 3. F 4. A | ranke , T. F. et al. (1 Burgering, B.M. and (Franke, . F. et al. (199 Nessi, D. R. et al. (19 Maira, S. M. et al. (20 | Coffer, P.J. (1995) / 95) <i>Cell</i> 81, 727-73 996) <i>EMBO J.</i> 15, 6 | <i>Vature</i> 376, 599-602 6. 5541-6551. | 2. | | | | |
| Species Reactivity | y Spe | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | | |
| Western Blot Buffe | •• | 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 | WB | WB: Western Blotting IP: Immunoprecipitation | | | | | | | |
| Cross-Reactivity k | X : X | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | | | | | | | |
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