
Anti-p55CDC

Cat #: HM1269
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

p55CDC is a cell cycle-dependent protein kinase that exhibits a high degree of homology with the *S. cerevisiae* proteins Cdc20 and Cdc4. It is expressed in a variety of cultured cell lines in growth phase, but is down regulated when cell growth is chemically arrested. p55 CDC shows kinase activity towards α -casein and myelin basic protein. p55CDC appears to be a regulatory protein interacting with several other proteins at multiple points in the cell cycle. It is required for two microtubule-dependent processes, nuclear movement prior to anaphase and chromosome separation.

SPECIFICITY

This antibody specifically reacts with p55CDC of mouse, rat and human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A recombinant protein corresponding to the full length human p55 CDC.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Weinstein, J., Jacobsen, F.W., Hsu-Chen, J., Wu, T., and Baum, L.G. 1994. A novel mammalian protein, p55CDC, present in dividing cells, is associated with protein kinase activity and has homology to the *Saccharomyces cerevisiae* cell division cycle proteins Cdc20 and Cdc4. *Mol. Cell. Biol.* 14: 3350-3363.
2. Weinstein, J. 1997. Cell cycle-regulated expression, phosphorylation, and degradation of p55Cdc. A mammalian homolog of CDC20/Fizzy/slp1. *J. Biol. Chem.* 272, 28501-28511.
3. Asadi, A., Jorgensen, J. and Jacobsson, A. 2002. Elov11 and p55Cdc genes are localized in a tail-to-tail array and are co-expressed in proliferating cells. *J. Biol. Chem.* 277, 18494-18500.

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