
Anti- KAP

Cat #: HM1209
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

KAP is a dual specificity phosphatase that interacts with cyclin-dependent kinases. It interacts with, and dephosphorylates CDK2 kinase, thus preventing the activation of CDK2 kinase. KAP contains the HCXXXGR motif characteristic of protein tyrosine phosphatases and exhibits phosphatase activity toward substrates containing either phosphotyrosine or phosphoserine residues.

SPECIFICITY

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

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

IMMUNOGEN

A synthetic peptide derived from N-terminus of human KAP protein.

STORAGE

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

REFERENCES

1. Galaktionov, K. and Beach, D. 1991. Specific activation of cdc25 tyrosine phosphatases by B-type cyclins: evidence for multiple roles of mitotic cyclin. *Cell* 67: 1181-1194.
2. Xiong, Y., Zhang, H., and Beach, D. 1992. D type cyclins associate with multiple protein kinases and the DNA replication and repair factor PCNA. *Cell* 71: 505-514.
3. Zhang, H., Xiong, Y., and Beach, D. 1994. Proliferating cell nuclear antigen and p21 are components of multiple cell cycle kinase complexes. *Mol. Biol. Cell* 4: 897-906.
4. Hannon, G.J., Casso, D., and Beach, D. 1994. KAP: a dual specificity phosphatase that interacts with cyclin-dependent kinases. *Proc. Natl. Acad. Sci. USA* 91: 1731-1735.
5. Poon, R.Y. and Hunter, T. 1995. Dephosphorylation of Cdk2 Thr160 by the cyclin-dependent kinase-interacting phosphatase KAP in the absence of cyclin. *Science* 270, 90-93.
6. Lee, S.W., Reimer, C.L., Fang, L., Iruela-Arispe, M.L. and Aaronson, S.A. 2000. Overexpression of kinase-associated phosphatase (KAP) in breast and prostate cancer and inhibition of the transformed phenotype by antisense KAP expression. *Mol. Cell. Biol.* 20 (5), 1723-1732.

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Web: www.hypromatrix.com