

anti-p-Raf-1

Cat #: HM1411
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Raf-1 is a cytoplasmic protein with intrinsic serine/threonine activity that plays a critical role in regulating cell growth and differentiation. It is the cellular homolog of v-Raf, the product of the transforming gene of murine sarcoma virus. The unregulated kinase activity of the v-Raf protein is associated with transformation and mitogenesis. The activity of Raf-1 is normally suppressed by a regulatory N-terminal domain. Raf-1 is activated in response to activation of a variety of tyrosine kinase receptors as well as in response to pp60v-Src expression. Co-activation of PI 3-kinase and the Ras signaling pathway induce Raf-1 phosphorylation in the catalytic domain at Ser-338 and, to a lesser extent, Ser-339. Raf-1 is also phosphorylated on Tyr 340 and 341. Phosphorylation of Ser 621 is essential for the catalytic activity of Raf-1 and downregulation by c-AMP-dependent protein kinase A (PKA). PKA also phosphorylates Raf-1 on Ser 43 and Ser 259.

SPECIFICITY

This antibody reacts with Ser 338 phosphorylated Raf-1 of mouse, rat and human origin by Western blotting, immunoprecipitation, and immunohistochemistry.

Molecular Weight of p-Raf-1: 74 kDa.
Western blotting positive controls: UV irradiated HeLa cell lysate:

IMMUNOGEN

A short peptide containing phosphorylated Ser-338 of human Raf-1.

STORAGE

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

REFERENCES

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