
anti-Raf-1

Cat #: HM1304
Mouse monoclonal 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. Raf-1 functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated Raf-1 can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2 which in turn phosphorylate and activate the serine/threonine specific protein kinases ERK1 and ERK2.

SPECIFICITY

This antibody reacts with 74 kDa Raf-1 of mouse, rat and human origin by Western blotting, immunoprecipitation, and immunohistochemistry.

Molecular Weight of Raf-1: 74 kDa.

Western blotting positive controls: HeLa; NIH/3T3.

IMMUNOGEN

Full-length recombinant human Raf-1 protein.

STORAGE

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

REFERENCES

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