
anti-Ras

Cat #: HM1312
Rat monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

H-, K- and N-Ras proto-oncogenes encode 21 kDa proteins that are ubiquitously expressed guanine nucleotide-binding proteins. They bind GDP and GTP with high affinity and possess a low level intrinsic GTPase activity that can be stimulated over 1000-fold by interaction with cytosolic GTPase activating protein (GAP), a potential effector for Ras p21 function. Mutations in Ras genes have been found in many human tumors, providing evidence for a common genetic target in cancer. A variety of extracellular growth factors that act through protein tyrosine kinase receptors, such as insulin, platelet-derived growth factor and nerve growth factor, require Ras to exert their effects. Ras p21 in its active GTP bound state binds to Raf-1, resulting in activation of the MAP kinase signaling cascade.

SPECIFICITY

This antibody reacts with H-Ras, K-Ras and N-Ras 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 H-Ras.

STORAGE

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

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