
anti-Rap 1

Cat #: HM1308
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Rap 1A and Rap 1B are Ras-related proteins which share approximately 50% amino acid identity with the classical Ras proteins and have numerous structural features in common. A difference between the Rap and Ras proteins resides in their 61st amino acid: glutamine in Ras is replaced by threonine in Rap proteins. Rap 1A can interact with RAS GAPs and RAF in a competitive manner and thus counteracts the mitogenic function of RAS. Another protein, Rap 2 shares 60% identity with the Rap 1A and exhibits a carboxy terminal CAAX motif and two upstream cysteines similar to those of the H-Ras, K-Ras and N-Ras proteins. In contrast with Rap 1, overexpression of Rap 2 does not interfere with the Ras signaling pathway.

SPECIFICITY

This antibody reacts with Rap 1A and Rap 1B p21 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

Molecular weight of Rap 1: 21/24 kDa.

Western blotting positive control: A-431 or NIH/3T3 cell lysate.

IMMUNOGEN

A peptide near the C-terminus of human Rap 1A.

STORAGE

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

REFERENCES

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