

**Rap1B ΔC**

Ras-proximate 1B, deletion of 17 C-terminal residues
human, recombinant, *E. coli*

Cat. No.	Amount
PR-301	50 µg

For general laboratory use.

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Molecular Weight: 19.0 kDa (167 amino acids)

Accession number: NM_015646

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 64 mM Tris-HCl pH 7.0, 5 mM DTE, 400 mM NaCl, 10 mM MgCl₂ and 0.1 mM GDP)

Description:

Rap (Ras-proximate) proteins are GTPases that belong to the Ras superfamily of small GTP binding proteins. Rap1B is known to antagonize the mitotic and transforming activity of Ras. Rap1B can be activated by cAMP known to either stimulate or inhibit cell proliferation. The deletion of 17 C-terminal amino acids in Rap1B ΔC leads to the loss of the phosphorylation site Ser179 and the geranyl-geranylation site. Protein preparation is 53% GDP- and 47% GTP-loaded, measured by HPLC.

Selected References:

Ribeiro-Neto *et al.* (2002) On the mitogenic properties of Rap1b:cAMP-induced G (1)/S entry requires activated and phosphorylated Rap1b. *Proc. Natl. Acad. Sci. USA* **99**:5418.

Altschuler *et al.* (1998) Mitogenic and oncogenic properties of the small G protein Rap1b. *Proc. Natl. Acad. Sci. USA* **95**:7475.

Miura *et al.* (1992) Phosphorylation of smg p21B/rap1B p21 by cyclic GMP-dependent protein kinase. *FEBS Lett.* **297**:171.