

**TC21/R-Ras2^{GST}**

Teratocarcinoma oncogene, related ras viral oncogene homolog 2
human, recombinant, *E. coli*

| Cat. No. | Amount |
|----------|--------|
| PR-359 | 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

Accession number: NM_012250

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 25 mM Tris-HCl pH 7.5, 150 mM NaCl, 5 mM MgCl₂ and 5 mM beta-mercaptoethanol)

Description:

Ras proteins are members of the superfamily of small GTP-binding proteins that function as molecular switches controlling a variety of signaling and transport pathways. The Ras family of GTP-binding proteins consists of the classical Ras (Ha-, K-, and N-), R-Ras, Rap1, Rap2, Ra1, Rheb, Rin, Rit, TC21/R-Ras2, and M-Ras/R-Ras3 (M-Ras). TC21 is a Ras-like GTPase with high oncogenic potential that is found mutated in some human tumors and overexpressed in breast cancer cell lines. TC21 binds physically to c-Raf-1 in a GTP-dependent manner. The GST-Tag facilitates the protein's application in typical GST pull-down assays.

Selected References:

Movilla *et al.* (1999) Signal transduction elements of TC21, an oncogenic member of the R-Ras subfamily of GTP-binding proteins. *Oncogene*. **18**:5860.

Huang *et al.* (2004) Role of TC21/R-Ras2 in enhanced migration of neurofibromin-deficient Schwann cells. *Oncogene*. **23**:368.

Ohba *et al.* (2000) Regulatory proteins of R-Ras, TC21/R-Ras2, and M-Ras/R-Ras3. *J. Biol. Chem.* **27**:20020.