

Product: FRK, active
Catalog #: 02-2020
Amount: 5 µg

DESCRIPTION:

FRK (fyn-related kinase) or Rak is a nuclear tyrosine kinase and member of the Src sub-family. Restricted expression of FRK is detected in a broad range of cell lines with highest levels in epithelial cells. Increased expression of FRK has been shown in breast and renal cell carcinoma cell lines. In addition the retinoblastoma tumor susceptibility gene product pRb associates with FRK *in vitro* and *in vivo* (1). Overexpression of FRK in beta-cells from the pancreas increases the susceptibility of these cells to beta-cell-toxic events (hallmark of Type I diabetes)(2)

The gene accession number is **NM 002031**

Gene Aliases: GTK; RAK; PTK5

SOURCE:

Recombinant full-length human FRK (208-end) was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

MOLECULAR WEIGHT:

60 kDa

PURITY:

> 90% (by densitometry)

FORM:

Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

CONCENTRATION:

0.1 mg/ml

SPECIFIC ACTIVITY:

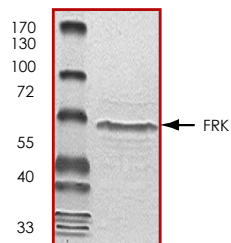
997 nmol/mim/mg

STORAGE:

-70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Craven, R J. et al: The nuclear tyrosine kinase Rak associates with the retinoblastoma protein pRb. Cancer Res. 1995 Sep 15;55(18):3969-72
2. Welsh, M. et al: The tyrosine kinase FRK/RAK participates in cytokine-induced islet cell cytotoxicity. Biochem J. 2004 Aug 15;382(Pt 1):261-8



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