**BACKGROUND**

GEFT (guanine nucleotide exchange factor GEFT), also known as p63RhoGEF or Rho A/Rac/Cdc42 exchange factor, is a 580 amino acid cytoplasmic protein that is highly expressed in excitable tissues such as brain, heart and muscle, and weakly expressed in small intestine, colon, liver, placenta and lung. GEFT may play a role in Actin cytoskeleton reorganization in different tissues since its activation induces formation of Actin stress fibers. GEFT works as a guanine nucleotide exchange factor for the Rho family of small GTPases and links specifically to \( \Gamma_{\text{GQ/11}} \)-coupled receptors in Rho A activation. GEFT is an important regulator of processes involved in axon and dendrite formation. Involved in skeletal myogenesis, GEFT seems to be an exchange factor primarily for Rac1 in neurons. Existing as two alternatively spliced variants, GEFT contains a DH (DBL-homology) domain and a PH domain.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GEFT (human) mapping to 12q13.3; D10Erd610e (mouse) mapping to 10 D3.

**SOURCE**

GEFT (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GEFT of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-161637 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

GEFT (G-14) is recommended for detection of GEFT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GEFT siRNA (h): sc-95849, GEFT siRNA (m): sc-145379, GEFT shRNA Plasmid (h): sc-95849-SH, GEFT shRNA Plasmid (m): sc-145379-SH, GEFT shRNA (h) Lentiviral Particles: sc-95849-V and GEFT shRNA (m) Lentiviral Particles: sc-145379-V.

Molecular Weight of GEFT isoforms: 63 kDa.

Positive Controls: mouse skeletal muscle tissue extract.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.