10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GEFT Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9782c

Specification

GEFT Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q86VW2

GEFT Antibody (Center) Blocking Peptide - Additional Information

Gene ID 115557

Other Names
Rho guanine nucleotide exchange factor 25, Guanine nucleotide exchange factor GEFT, Rac/Cdc42/Rho exchange factor GEFT, RhoA/Rac/Cdc42 guanine nucleotide exchange factor GEFT, p63RhoGEF, ARHGEF25, GEFT

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GEFT Antibody (Center) Blocking Peptide - Protein Information

Name ARHGEF25

Synonyms GEFT

Function
May play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. It works as a guanine nucleotide exchange factor for Rho family of small GTPases. Links specifically G alpha q/11-coupled receptors to RHOA activation. May be an important regulator of processes involved in axon and dendrite formation. In neurons seems to be an exchange factor primarily for RAC1. Involved in skeletal myogenesis (By similarity).

Cellular Location
Cell membrane. Cytoplasm, myofibril, sarcomere. Note=Highly colocalizes with actin regions

Tissue Location
Isoform 1 and isoform 2 are highly expressed in excitable tissues, such as brain, heart and muscle. Also detected in kidney and liver.

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GEFT Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GEFT Antibody (Center) Blocking Peptide - Images

GEFT Antibody (Center) Blocking Peptide - Background

The Rho family of small GTPases act as molecular switches to control a wide range of cellular processes. Guanine nucleotide exchange factors (GEFs), like GEFT, activate Rho GTPases by accelerating GDP/GTP exchange.

GEFT Antibody (Center) Blocking Peptide - References

Shankaranarayanan, A., et al. J. Biol. Chem. 283(50):34923-34934(2008)Swenson-Fields, K.I., et al. Mol. Cell 32(1):43-56(2008)Lutz, S., et al. Science 318(5858):1923-1927(2007)Bryan, B.A., et al. J. Neurosci. Res. 83(7):1151-1159(2006)Lutz, S., et al. J. Biol. Chem. 280(12):11134-11139(2005)