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

GEFT Rabbit pAb

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Catalog # AP54646

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86VW2
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63843
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GEFT
Epitope Specificity	251-340/580
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Cytoplasm > myofibril > sarcomere. Highly colocalizes with actin regions.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GEFT 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 G alpha q/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 Rac 1 in neurons. Existing as two alternatively spliced variants, GEFT contains a DH (DBL-homology) domain and a PH domain.

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
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

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.

Background

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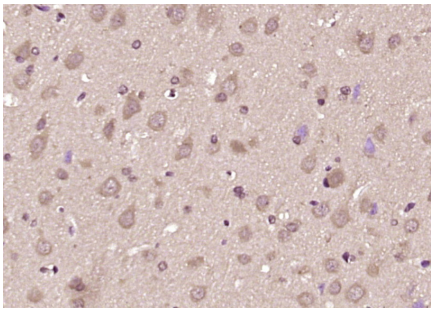
Images



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GEFT) Polyclonal Antibody, Unconjugated (AP54646) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.