



Rabbit Anti-GEFT antibody

SL11844R

Product Name:	GEFT
Chinese Name:	鸟嘌呤核苷酸交换因子GEFT抗体
Alias:	ARHGEF25; ARHGP_HUMAN; GEFT; p63RhoGEF; Guanine nucleotide exchange factor GEFT; p63RhoGEF ; RAC/CDC42 exchange factor; Rac/Cdc42/Rho exchange factor GEFT; Rho guanine nucleotide exchange factor 25; RhoA/RAC/CDC42 exchange factor; RhoA/Rac/Cdc42 guanine nucleotide exchange factor GEFT.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	64kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GEFT:251-340/580
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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.

Subunit:

Interacts (via the DH domain) with BVES (via the C-terminus cytoplasmic tail) (By similarity). Interacts with activated GNAQ and GNA11. Interacts with RHOA, CDC42 and RAC1.

Subcellular Location:

Cell membrane. Cytoplasm > myofibril > sarcomere. Highly colocalizes with actin regions.

Tissue Specificity:

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

Similarity:

Contains 1 DH (DBL-homology) domain.

Contains 1 PH domain.

SWISS:

Q86VW2

Gene ID:

115557

Database links:

[Entrez Gene: 115557](#)Human

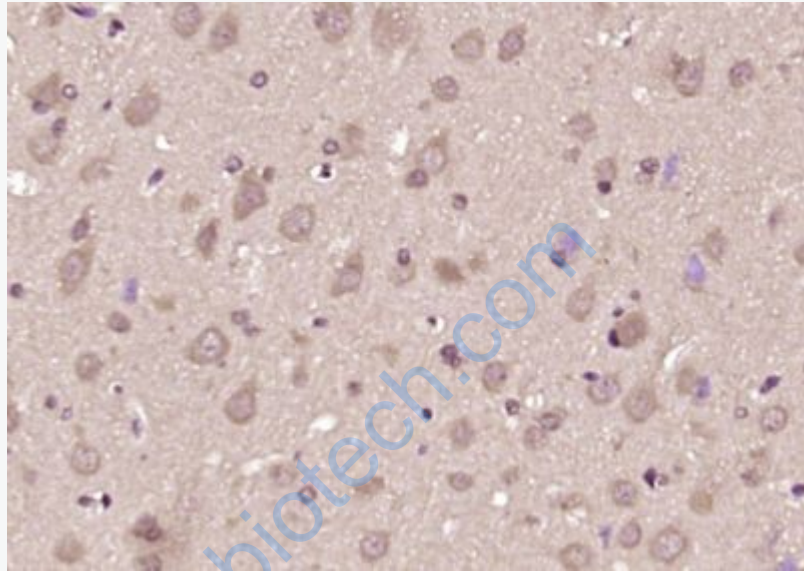
[Omim: 610215](#)Human

[SwissProt: Q86VW2](#)Human

[Unigene: 61581](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

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 (SL11844R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.