SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FGD5 antibody

Catalog Number: SL16081R

FOR RESEARCH USE ONLY

[DATASHEET]

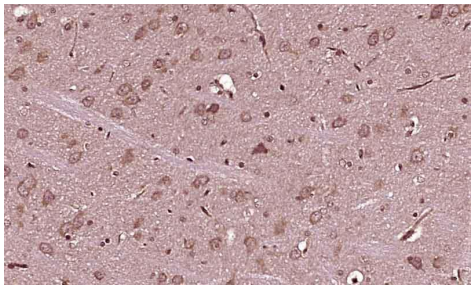
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FGD5
Immunogen:	KLH conjugated synthetic peptide derived from human FGD5: 1301-1462/1462
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog)
Predicted MW.:	160kDa
Subcellular Location:	cytoplasmic
Background:	FGD5 is a 1,462 amino acid cytosolic protein that contains a DH domain, a FYVE-type zinc finger and two PH domains. FGD family members encode guanine nucleotide exchange factors that specifically activate the Rho GTPase Cdc42. All FGD proteins contain equivalent signaling domains and a conserved structural organization, which strongly suggests that these signaling domains form a canonical core structure for members of the FGD family of RhoGEF proteins. These proteins also control essential signals required during embryonic development. **Function:** FGD5 may activate CDC42, a member of the Ras like family of Rho and Rac proteins, by exchanging bound GDP for free GTP. It may also play a role in regulating the actin cytoskeleton and cell shape. FGD5 contains one DH (DBL-homology) domain one FYVE type zinc finger and two PH

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

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	domains. There are two isoforms. **Subcellular Location:** Cytoplasm, cytoskeleton. Cell projection, ruffle membrane. Endoplasmic reticulum. Golgi apparatus. Early endosome. Note=In peripheral membrane ruffles, colocolizes with F-actin. In confluent HUVECs, detected at cell-cell-contact sites where it colocalizes with vascular endothelial cadherin/CDH5. **Tissue Specificity:** Expressed in endothelial cells (at protein level). **Similarity:** Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains. **Database links:** **Entrez Gene:** 152273 Human **Entrez Gene:** 232237 Mouse **Entrez Gene:** 362402 Rat Omim: 614788 Human **SwissProt:** Q6ZNL6 Human **SwissProt:** Q80UZ0 Mouse **Unigene:** 412406 Human

[VALIDATION 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 (FGD5) Polyclonal Antibody, Unconjugated (SL16081R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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