SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FGD3 antibody

Catalog Number: SL16079R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FGD3
Immunogen:	KLH conjugated synthetic peptide derived from human FGD3: 501-600/725
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:	WB=1:500-2000 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:	Human,Mouse(predicted:Rat)
Predicted MW.:	79kDa
Subcellular Location:	cytoplasmic
Background:	FGD1 gene mutations result in faciogenital dysplasia (FGDY, Aarskog-Scott syndrome), an X-linked developmental disorder that adversely affects the formation of multiple skeletal structures. FGD1 maps to human chromosome Xp11.21 and shares a high degree of sequence identity with the FGD2 (6p21.2) and the FGD3 (9q22.31) proteins. FGD1 encodes a guanine nucleotide exchange factor that specifically activates the Rho GTPase Cdc42. FGD2 is present in several diverse tissues during embryogenesis, suggesting a role in embryonic development. FGD3 stimulates fibroblasts to form filopodia, which are Actin microspikes formed upon the stimulation of Cdc42. All FGD family members 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

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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	proteins. These proteins control essential signals required during embryonic development. **Function:** Promotes the formation of filopodia. May activate CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape. **Subcellular Location:** Cytoplasm. Cytoplasm > cytoskeleton. **Similarity:** Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains. **Database links:** **Entrez Gene:** 89846 Human **Entrez Gene:** 30938 Mouse **Entrez Gene:** 361223 Rat **SwissProt:** Q5JSP0 Human **SwissProt:** O88842 Mouse **Unigene:** 411081 Human **Unigene:** 291089 Mouse **Unigene:** 214480 Rat

[VALIDATION IMAGES]

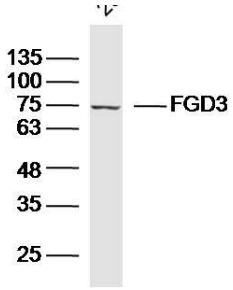


Figure 1. Sample: 293T Cell (Human) Lysate at 40 ug Primary: Anti-FGD3 (SL16079R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 79 kD Observed band size: 75 kD

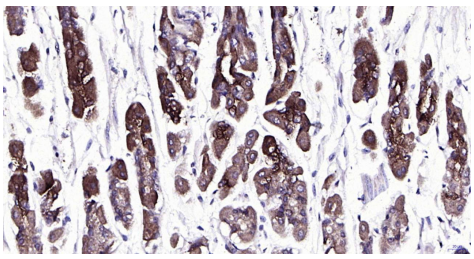


Figure 2. Paraformaldehyde-fixed, paraffin embedded Mouse Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with FGD3 Polyclonal Antibody, Unconjugated (SL16079R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

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