



## Rabbit Anti-FGD3 antibody

SL16079R

<b>Product Name:</b>	FGD3
<b>Chinese Name:</b>	FGD3蛋白抗体
<b>Alias:</b>	Faciogenital dysplasia 3; FGD1 family, member 3; FGD3; FGD3_HUMAN; FYVE; FYVE, RhoGEF and PH domain containing 3; FYVE, RhoGEF and PH domain containing protein 3; RhoGEF and PH domain-containing protein 3; ZFYVE5; Zinc finger FYVE domain containing protein 5; Zinc finger FYVE domain-containing protein 5.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=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.
<b>Molecular weight:</b>	79kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human FGD3:501-600/725
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 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.

**SWISS:**

Q5JSP0

**Gene ID:**

89846

**Database links:**

[Entrez Gene: 89846](#) Human

[Entrez Gene: 30938](#) Mouse

[Entrez Gene: 361223](#) Rat

[SwissProt: Q5JSP0](#) Human

[SwissProt: O88842](#) Mouse

[Unigene: 411081](#) Human

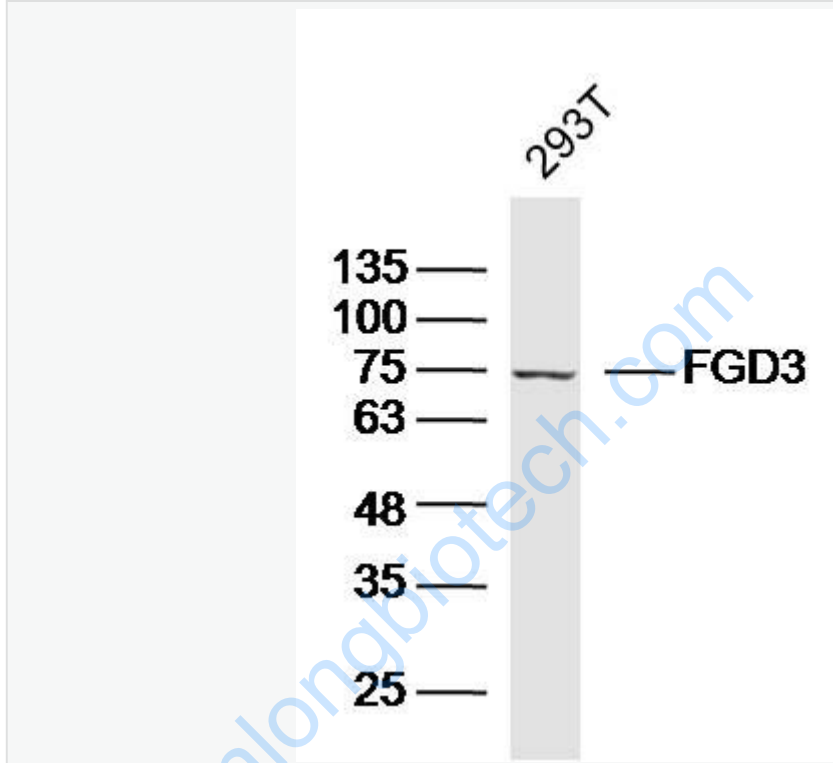
[Unigene: 291089](#) Mouse

[Unigene: 214480](#) Rat

**Important Note:**

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

**Picture:**



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