



Rabbit Anti-FGD4 antibody

SL16080R

Product Name:	FGD4
Chinese Name:	FGD4蛋白抗体
Alias:	9030023J02Rik; 9330209B17Rik; Actin filament binding protein frabin; Actin filament-binding protein frabin; CMT4H; DKFZp313E1818; DKFZp434K1572; FGD1 related F actin binding protein; FGD1-related F-actin-binding protein; Fgd4; FGD4_HUMAN; FLJ34370; FLJ42663; FRABP; FYVE; FYVE, RhoGEF and PH domain containing 4; MGC57222; RhoGEF and PH domain-containing protein 4; ZFYVE6; Zinc finger FYVE domain containing protein 6; Zinc finger FYVE domain-containing protein 6.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,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:	87kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FGD4:651-750/766
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:	This gene encodes a protein that is involved in the regulation of the actin cytoskeleton

and cell shape. This protein contains an actin filament-binding domain, which together with its Dbl homology domain and one of its pleckstrin homology domains, can form microspikes. This protein can activate MAPK8 independently of the actin filament-binding domain, and it is also involved in the activation of CDC42 via the exchange of bound GDP for free GTP. The activation of CDC42 also enables this protein to play a role in mediating the cellular invasion of *Cryptosporidium parvum*, an intracellular parasite that infects the gastrointestinal tract. Mutations in this gene can cause Charcot-Marie-Tooth disease type 4H (CMT4H), a disorder of the peripheral nervous system. [provided by RefSeq, Oct 2008]

Function:

Activates 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. Activates MAPK8.

Subcellular Location:

Cytoplasm > cytoskeleton. Cell projection > filopodium. Concentrated in filopodia and poorly detected at lamellipodia. Binds along the sides of actin fibers.

Tissue Specificity:

Expressed in different tissues, including brain, cerebellum, peripheral nerve, skeletal muscle, heart, uterus, placenta and testis.

Similarity:

Contains 1 DH (DBL-homology) domain.
Contains 1 FYVE-type zinc finger.
Contains 2 PH domains.

SWISS:

Q96M96

Gene ID:

121512

Database links:

[Entrez Gene: 121512](#) Human

[Omid: 611104](#) Human

[SwissProt: Q96M96](#) Human

[Unigene: 117835](#) Human

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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