



Rabbit Anti-FGD5 antibody

SL16081R

| | |
|-------------------------------|--|
| Product Name: | FGD5 |
| Chinese Name: | FGD5蛋白抗体 |
| Alias: | FYVE, RhoGEF and PH domain containing protein 5; ZFYVE23; FGD5_HUMAN; Zinc finger FYVE domain containing protein 23. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog, |
| 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: | 160kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human FGD5:1301-1462/1462 |
| 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: | 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 domains. There are two isoforms.

Subcellular Location:

Cytoplasm, cytoskeleton. Cell projection, ruffle membrane. Endoplasmic reticulum. Golgi apparatus. Early endosome. Note=In peripheral membrane ruffles, colocalizes 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.

SWISS:

Q6ZNL6

Gene ID:

152273

Database links:

[Entrez Gene: 152273](#) Human

[Entrez Gene: 232237](#) Mouse

[Entrez Gene: 362402](#) Rat

[Omim: 614788](#) Human

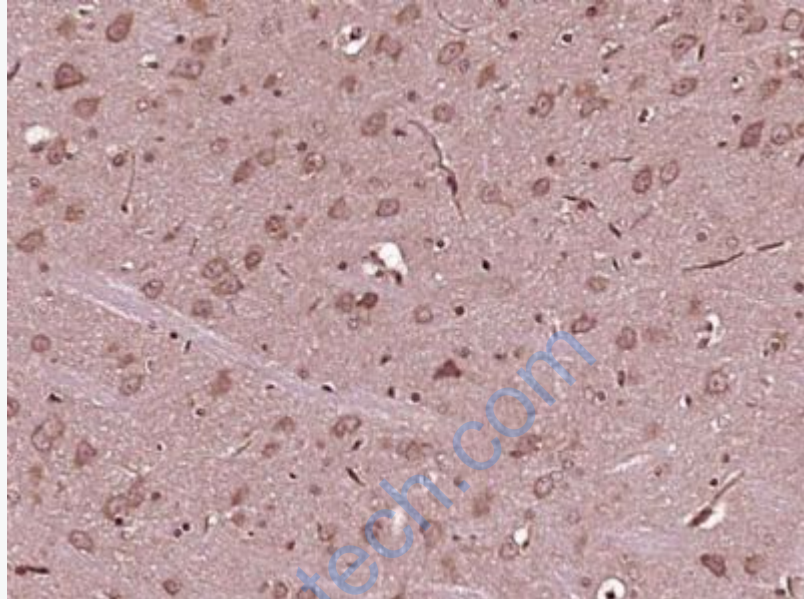
[SwissProt: Q6ZNL6](#) Human

[SwissProt: Q80UZ0](#) Mouse

[Unigene: 412406](#) Human

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