

FGD5 Rabbit pAb

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Catalog # AP56111

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZNL6
Reactivity	Rat
Predicted	Dog, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	159891
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FGD5
Epitope Specificity	1301-1462/1462
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	152273
Other Names	FYVE, RhoGEF and PH domain-containing protein 5, Zinc finger FYVE domain-containing protein 23, FGD5, ZFYVE23
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

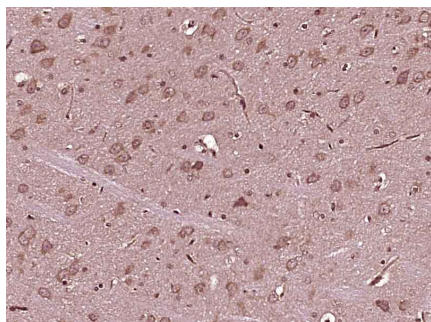
Protein Information

Name	FGD5
Synonyms	ZFYVE23
Function	Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Mediates VEGF- induced CDC42 activation. May regulate proangiogenic action of VEGF in vascular endothelial cells, including network formation, directional movement and proliferation. May play a role in regulating the actin cytoskeleton and cell shape.
Cellular 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 Location	Expressed in endothelial cells (at protein level).

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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 (AP56111) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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