FGD5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGD5, Polyclonal Antibody
Full Product Name	FGD5 Polyclonal Conjugated Antibody
Product Gene Name	anti-FGD5 antibody
Product Synonym Names	FGD5 Conjugated Antibody; FGD5; ZFYVE23; FYVE; RhoGEF and PH domain containing 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	159,891 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (14852247..14976072). Location: 3p25.1
OMIM	614788
3D Structure	ModBase 3D Structure for Q6ZNL6
Immunogen	Recombinant fusion protein of human FGD5 (NP_689749.3).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-FGD5 antibody	Most Applications
Application Notes for anti-FGD5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-FGD5 antibody	MBS9440469 is an antibody targeting FGD5. Also known as FGD5 Polyclonal Conjugated Antibody. Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-FGD5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGD5. It may not necessarily be applicable to this product.

NCBI GI #	194018497
NCBI GeneID	152273
NCBI Accession #	NP_689749.3
UniProt Primary Accession #	Q6ZNL6
UniProt Secondary Accession #	Q6MZY1; Q7Z303; Q8IYP3; Q8N861; Q8N8G4; B3KVQ3
UniProt Related Accession #	Q6ZNL6
GenBank Nucleotide #	NM_152536.3
NCBI Official Full Name	FYVE, RhoGEF and PH domain-containing protein 5
NCBI Official Synonym Full Names	FYVE, RhoGEF and PH domain containing 5
NCBI Official Symbol	FGD5
NCBI Official Synonym Symbols	ZFYVE23
UniProt Protein Name	FYVE, RhoGEF and PH domain-containing protein 5
UniProt Synonym Protein Names	Zinc finger FYVE domain-containing protein 23
Protein Family	FYVE, RhoGEF and PH domain-containing protein
UniProt Gene Name	FGD5
UniProt Synonym Gene Names	ZFYVE23
UniProt Entry Name	FGD5_HUMAN
NCBI Protein Information	FYVE, RhoGEF and PH domain-containing protein 5; zinc finger FYVE domain-containing protein 23
UniProt Comments for FGD5	FGD5: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs, Rac/Rho; GEFs Chromosomal Location of Human Ortholog: 3p25.1 Cellular Component: ruffle; Golgi apparatus; cytoskeleton; lamellipodium; endoplasmic reticulum; early endosome; cytoplasm Molecular Function: small GTPase binding; protein binding; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; metal ion binding Biological Process: regulation of cell shape; filopodium formation; cytoskeleton organization and biogenesis; actin cytoskeleton organization and biogenesis; positive regulation of GTPase activity
Research Articles on FGD5	**1.** FGD5 regulates endothelial adhesion, survival, and angiogenesis by modulating phosphatidylinositol 3-kinase signaling.
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