

For Research Use Only

FGD5 Polyclonal antibody

Catalog Number: 20910-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 20910-1-AP	GenBank Accession Number: BC035364	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 152273	Recommended Dilutions: IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	Full Name: FYVE, RhoGEF and PH domain containing 5	
Isotype: IgG	Calculated MW: 1462 aa, 160 kDa	
Immunogen Catalog Number: AG15037		

Applications

Tested Applications: IF, IHC, ELISA	Positive Controls: IHC : human lung tissue, human breast cancer tissue IF : HepG2 cells, Hela cells
Cited Applications: ColP, IF, IP, WB	
Species Specificity: human	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

FGD5 (or ZFYVE23) is an endothelial specific gene, plays a crucial role in vascular pruning. Deficient expression of FGD5 markedly inhibits neovascularization, indicated by in vitro tube-formation, aortic-ring, and coated-bead assays and by in vivo coated-bead plug assays and studies in the murine retina model. FGD5-deficient endothelial cells fail to migrate. Moreover, the cells are susceptible to proapoptotic stimuli associated with VEGF-stimulated activation of Akt. FGD5 promotes apoptosis-induced vaso-obstruction via induction of the hey1-p53 pathway by direct binding and activation of CDC42.

Notable Publications

Author	Pubmed ID	Journal	Application
Maikel A Farhan	29051140	Arterioscler Thromb Vasc Biol	WB, IP
Laura J Braun	31267715	EMBO Rep	WB, IF, ColP
Laura J Braun	31088862	EMBO Rep	

Storage

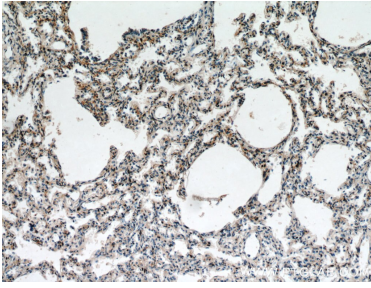
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

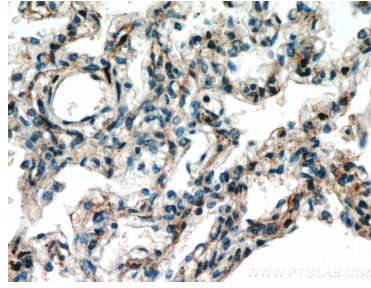
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

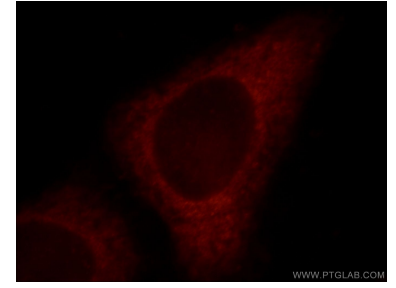
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lung using 20910-1-AP (FGD5 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung using 20910-1-AP (FGD5 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using FGD5 antibody 20910-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).