

For Research Use Only

FGD5 Polyclonal antibody

Catalog Number: 20910-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

20910-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15037

GenBank Accession Number:

BC035364

GeneID (NCBI):

152273

UNIPROT ID:

Q6ZNL6

Full Name:

FYVE, RhoGEF and PH domain containing 5

Calculated MW:

1462 aa, 160 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:20-1:200

IF/ICC 1:10-1:100

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Cited Applications:

WB, IF, IP, ColP

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

Positive Controls:

IHC : human lung tissue, human breast cancer tissue

IF/ICC : HepG2 cells, Hela cells

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-obliteration 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

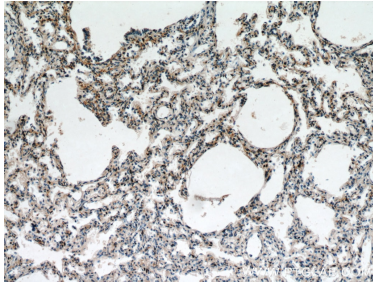
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

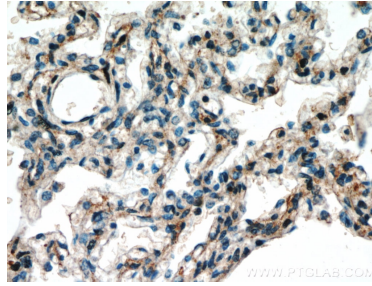
E: proteintech@ptglab.com
W: ptglab.com

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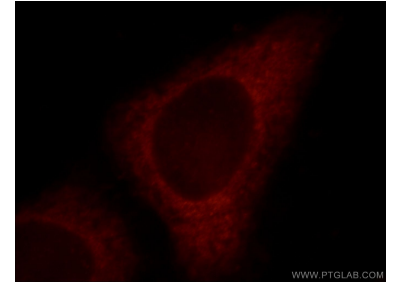
Selected Validation Data



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).