

For Research Use Only

ZFYVE16 Polyclonal antibody

Catalog Number: 13118-2-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

13118-2-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 620 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3811

GenBank Accession Number:

BC032227

GeneID (NCBI):

9765

UNIPROT ID:

Q7Z3T8

Full Name:

zinc finger, FYVE domain containing 16

Calculated MW:

1539 aa, 169 kDa

Observed MW:

230-250 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, zebrafish

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:

WB : HEK-293 cells, HeLa cells, human placenta tissue, mouse kidney tissue

IP : HeLa cells,

IHC : human kidney tissue, human heart tissue, human placenta tissue

IF/ICC : HeLa cells,

Background Information

Endofin (also known as ZFYVE16) is an endosomal FYVE domain protein implicated in regulating membrane trafficking. Endofin has been shown to localize to early endosomes. It co-localizes with SARA but does not associate with it or Smad2 and does not behave like SARA in affecting TGF-signaling. Northern blot analysis showed ZFYVE16 was widely expressed with high levels in kidney, placenta and lung. Overexpression of Endofin causes endosome aggregation. The gene of ZFYVE16 maps to chromosome 5q14, and encodes a 1539-amino acid protein with a molecular mass of 169 kDa. In addition, endogenous Endofin can also be detected as a band of 230-250 kDa. (PMID: 11546807)

Notable Publications

Author	Pubmed ID	Journal	Application
Jalal M Kazan	34761192	iScience	WB
Deepankar Gahlot	28602823	Structure	WB
Francesca Oltrabella	25838181	PLoS Genet	IF

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

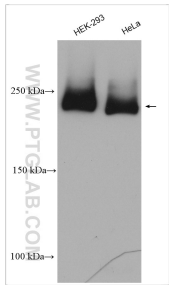
For technical support and original validation data for this product please contact:

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

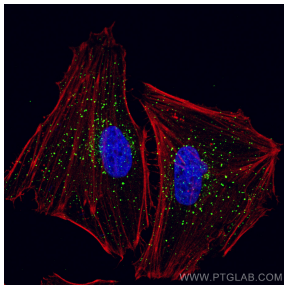
E: proteintech@ptglab.com
W: ptglab.com

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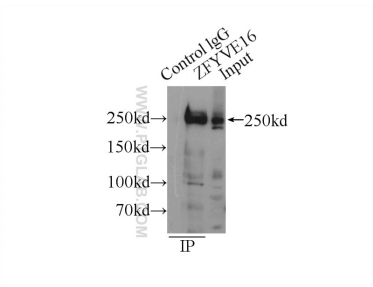
Selected Validation Data



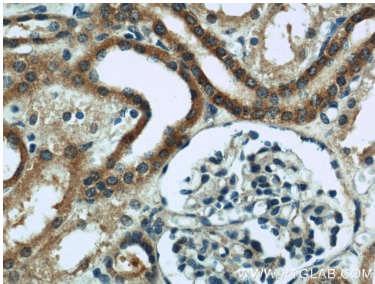
Various lysates were subjected to SDS PAGE followed by western blot with 13118-2-AP (ZFVE16 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



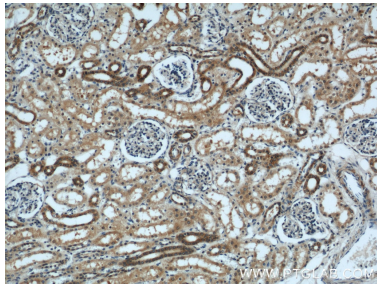
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ZFYVE16 antibody (13118-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). CL594-Phalloidin (red). DAPI (blue)



IP result of anti-ZFYVE16 (IP:13118-2-AP, 5ug; Detection:13118-2-AP 1:500) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human kidney using 13118-2-AP (ZFVE16 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 13118-2-AP (ZFVE16 antibody) at dilution of 1:200 (under 10x lens).