For Research Use Only

ZFYVE16 Polyclonal antibody

Catalog Number:13118-2-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
13118-2-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3811

GenBank Accession Number:
BC032227

GeneID (NCBI):
9765

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 IP and 1:500-1:1000 for WB
IHC 1:20-1:200
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, WB

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 : 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 Gahloth	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
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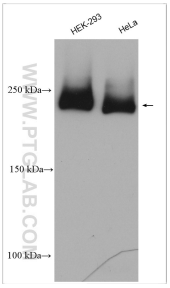
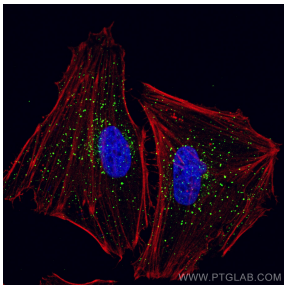
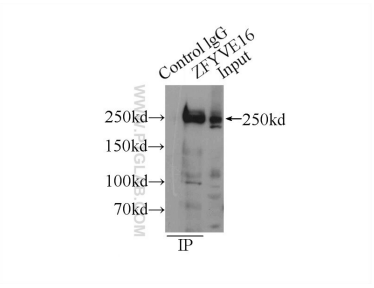
Selected Validation Data



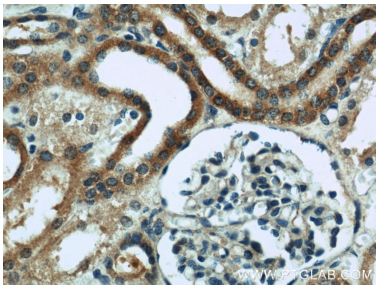
Various lysates were subjected to SDS PAGE followed by western blot with 13118-2-AP (ZFYVE16 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



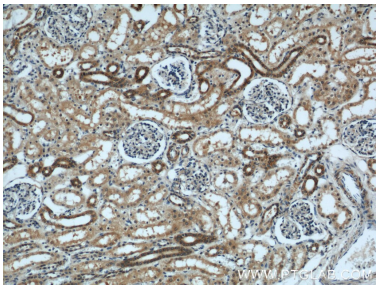
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ZFYVE16 antibody (13118-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). CL594-Phalloidin (red). DAPI (blue)



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 (ZFYVE16 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 13118-2-AP (ZFYVE16 antibody) at dilution of 1:200 (under 10x lens).