For Research Use Only

EPLIN Polyclonal antibody

Catalog Number:16639-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
16639-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9994

GenBank Accession Number:
BC001247

GeneID (NCBI):
51474

UNIPROT ID:
Q9UHB6

Full Name:
LIM domain and actin binding 1

Calculated MW:
85 kDa

Observed MW:
90 kDa, 110 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 1:50-1:500
IF/ICC 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

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:

WB : HUVEC cells, HEK-293 cells, human placenta tissue

IP : mouse liver tissue,

IHC : human prostate cancer tissue, human pancreas cancer tissue

IF/ICC : PC-3 cells, HepG2 cells

Background Information

EPLIN is a cytoskeletal protein that is preferentially expressed in epithelial cells and is implicated in regulation of cytoskeletal dynamics and cytokinesis. In human, there are two known isoforms, EPLIN-a and -b, generated by alternative promoter usage from a single gene. The 110 kDa EPLIN-β isoform represents the full-length protein and the 90 kDa EPLIN-α isoform lacks the amino-terminal 160 amino acids. EPLIN-a expression is often down-regulated in cancerous cells and tissues. (PMID: 10806352, 31644899)

Notable Publications

Author	Pubmed ID	Journal	Application
Qianqian Yang	36434041	Exp Mol Med	WB
Erik S Linklater	33999101	J Cell Biol	IHC
Shihoko Miyazaki	35821749	Acta Histochem Cytochem	IF

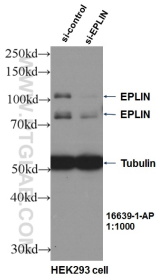
Storage

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

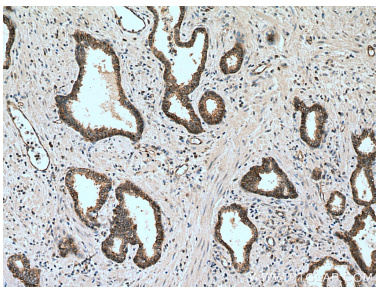
*** 20ul sizes contain 0.1% BSA

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

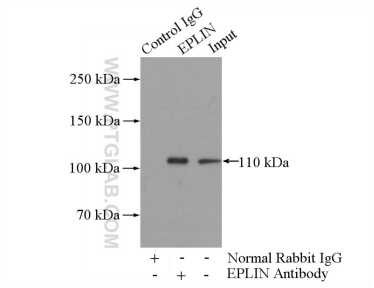
Selected Validation Data



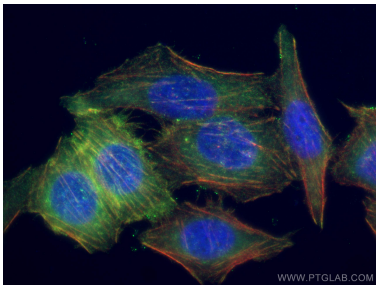
WB result of EPLIN antibody (16639-1-AP, 1:1000) with si-Control and si-EPLIN transfected HEK293 cells.



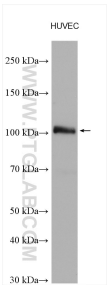
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 16639-1-AP (EPLIN antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



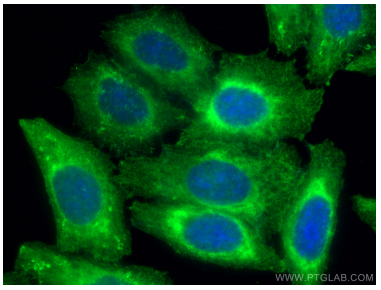
IP result of anti-EPLIN (IP:16639-1-AP, 4ug; Detection:16639-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using EPLIN antibody (16639-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



HUVEC cells were subjected to SDS PAGE followed by western blot with 16639-1-AP (EPLIN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EPLIN antibody (16639-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).