

For Research Use Only

Alix Polyclonal antibody

Catalog Number: 12422-1-AP

Featured Product

262 Publications



Basic Information

Catalog Number:

12422-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3074

GenBank Accession Number:

BC020066

GeneID (NCBI):

10015

UNIPROT ID:

Q8WUM4

Full Name:

programmed cell death 6 interacting protein

Calculated MW:

868 aa, 96 kDa

Observed MW:

96 kDa, 75-80 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: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, rabbit, monkey, hamster

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, human urine exosomes tissue, NIH/3T3 cells, HeLa cells, Jurkat cells, mouse liver tissue, rat liver tissue

IP: Jurkat cells,

IHC: human liver cancer tissue,

IF/ICC: HeLa cells,

Background Information

ALG-2-interacting protein 1 (ALIX), also known as AIP1 or Hp95, is encoded by PDCD6IP gene and is involved in cell death through mechanisms involving its binding partner ALG-2 (apoptosis-linked gene-2). ALG-2 is a 22-kDa protein containing five serially repetitive EF-hand structures and is defined as a regulator of calcium-induced apoptosis following endoplasmic reticulum (ER) stress. ALIX interacts with ALG-2 through its C-terminal proline-rich region and participates in formation of multivesicular bodies. Recent finding suggest that ALIX is a critical component of caspase 9 activation and apoptosis triggered by calcium. The alix antibody recognizes an additional band of 75-80 kDa which has also been observed in cells and exosomes.

Notable Publications

Author	Pubmed ID	Journal	Application
Christopher R Silvers	34564696	Br J Cancer	WB
Denghui Wei	32958903	Cell Res	WB
Xue Zou	33002418	Mol Ther	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

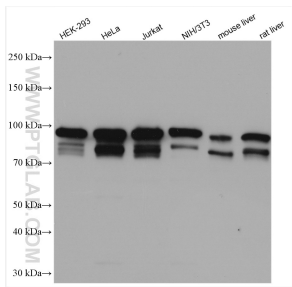
For technical support and original validation data for this product please contact:

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

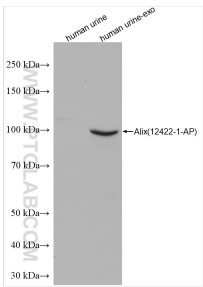
E: proteintech@ptglab.com
W: ptglab.com

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

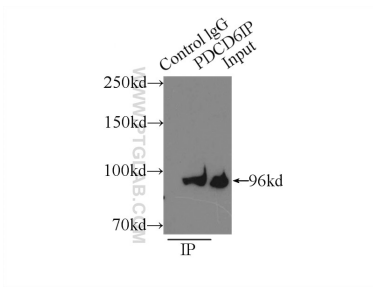
Selected Validation Data



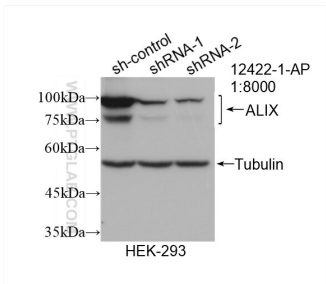
Various lysates were subjected to SDS PAGE followed by western blot with 12422-1-AP (Alix antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



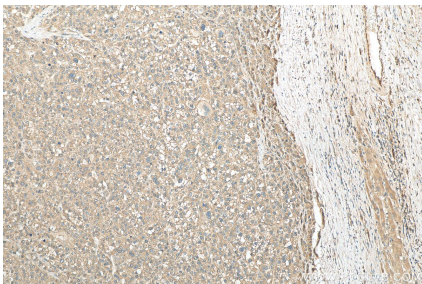
human urine exosome samples were subjected to SDS PAGE followed by western blot with 12422-1-AP (Alix antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



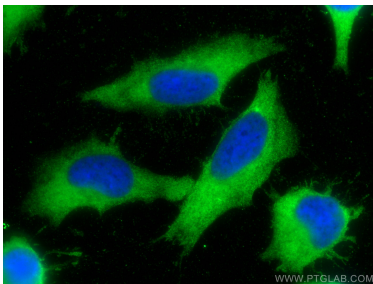
IP result of anti-Alix (IP:12422-1-AP, 3ug; Detection:12422-1-AP 1:500) with Jurkat cells lysate 4000ug.



WB result of Alix antibody (12422-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Alix transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12422-1-AP (Alix antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Alix antibody (12422-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).