

AKAP1 Polyclonal antibody

Catalog Number: 15618-1-AP

2 Publications

Basic Information

Catalog Number:

15618-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8037

GenBank Accession Number:

BC000729

GeneID (NCBI):

8165

UNIPROT ID:

Q92667

Full Name:

A kinase (PRKA) anchor protein 1

Calculated MW:

97 kDa

Observed MW:

149 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

IF 1:10-1:100

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IP, IF

Species Specificity:

human

Cited Species:

human

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: HeLa cells, human liver tissue, MCF-7 cells, PC-3 cells

IP: PC-3 cells,

IHC: human lung cancer tissue, human prostate cancer tissue, human colon cancer tissue, human small intestine tissue

IF: MCF-7 cells,

Background Information

AKAP1 (also termed AKAP149) is a human 149 kDa anchoring protein localized in mitochondria and the endoplasmic reticulum/nuclear envelope (ER-NE) network. It binds to type I and II regulatory subunits of protein kinase A and anchors them to the cytoplasmic face of the mitochondrial outer membrane. This protein is speculated to be involved in the cAMP-dependent signal transduction pathway and in directing RNA to a specific cellular compartment.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenxian Wu	27145933	EMBO J	WB
Grozdanov Petar N PN	23077346	Mol Endocrinol	WB, IP, 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

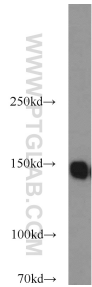
For technical support and original validation data for this product please contact:

T: 4006900926

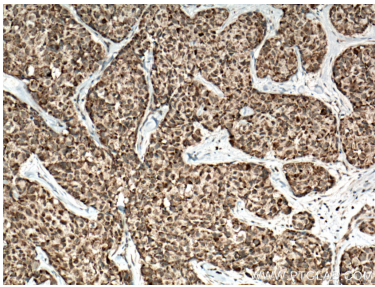
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

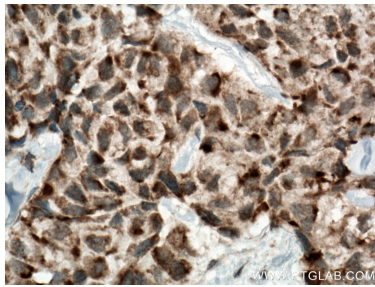
Selected Validation Data



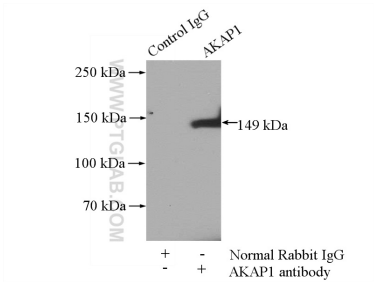
HeLa cells were subjected to SDS PAGE followed by western blot with 15618-1-AP (AKAP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



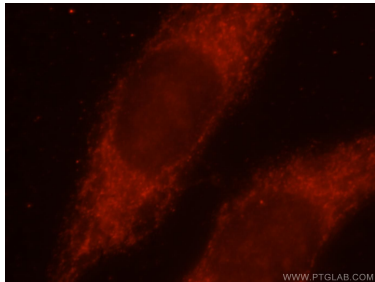
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15618-1-AP (AKAP1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



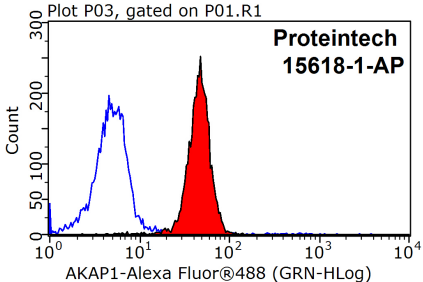
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15618-1-AP (AKAP1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-AKAP1 (IP:15618-1-AP, 4ug; Detection:15618-1-AP 1:2000) with PC-3 cells lysate 1800ug.



Immunofluorescent analysis of MCF-7 cells, using AKAP1 antibody 15618-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



1X10⁶ MCF-7 cells were stained with 0.2ug AKAP1 antibody (15618-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.