For Research Use Only

AKAP1 Polyclonal antibody

Catalog Number:15618-1-AP 2 Publications

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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 ug 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:
IF, IP, WB

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

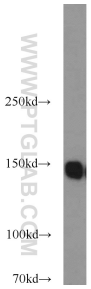
Author	Pubmed ID	Journal	Application
Wenxian Wu	27145933	EMBO J	WB
Grozdanov Petar N PN	23077346	Mol Endocrinol	WB,IP,IF

Storage

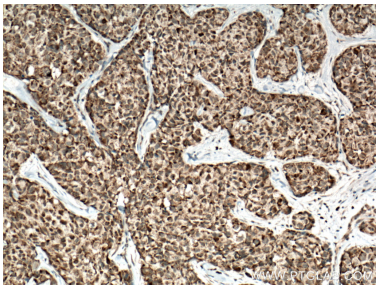
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

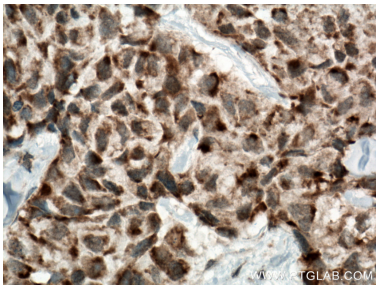
Selected Validation Data



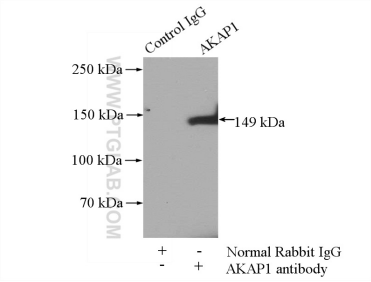
HeLa cells were subjected to SDS PAGE followed by western blot with 15618-1-AP (AKAP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



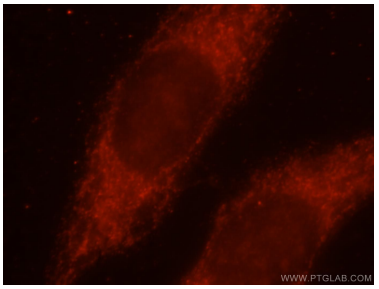
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15618-1-AP (AKAP1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



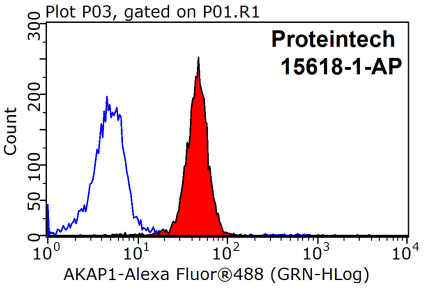
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15618-1-AP (AKAP1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 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.