

For Research Use Only

AKAP1 Polyclonal antibody

Catalog Number: 15618-1-AP

3 Publications



Basic Information

Catalog Number:

15618-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard;

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 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, RIP

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: Caco-2 cells, human liver tissue, HEK-293 cells, HeLa cells, MCF-7 cells, PC-3 cells, SW480 cells

IP: PC-3 cells,

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

IF/ICC: 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
Bin Ke	39802612	Noncoding RNA Res	WB, RIP, IHC
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

*** 20ul sizes contain 0.1% BSA

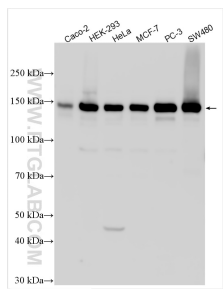
For technical support and original validation data for this product please contact:

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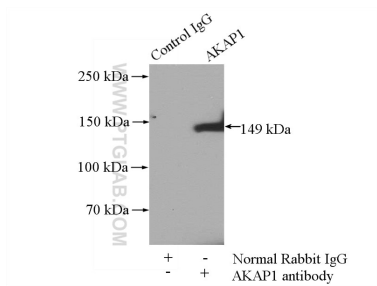
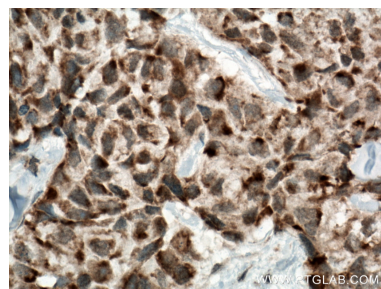
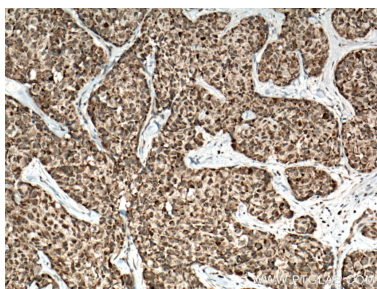
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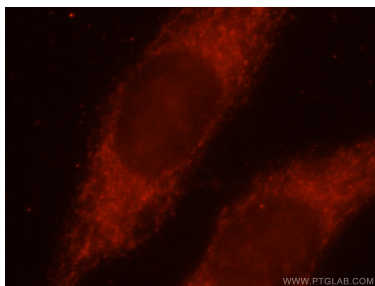
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15618-1-AP (AKAP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).