For Research Use Only

AKAP7 Polyclonal antibody

Catalog Number:12591-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
12591-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3297

GenBank Accession Number:
BC016927

GeneID (NCBI):
9465

UNIPROT ID:
O43687

Full Name:
A kinase (PRKA) anchor protein 7

Calculated MW:
81 aa, 9 kDa

Observed MW:
11 kDa, 18 kDa, 37 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:20-1:200
IF/ICC: 1:10-1:100

Applications

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

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human

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 : human brain tissue,

IHC : human brain tissue, human heart tissue

IF/ICC : HepG2 cells,

Background Information

AKAP7, also named as AKAP15 and AKAP18, localize PKA in complexes with CaV1.2 and PLN, respectively. AKAP7 targets the cAMP-dependent protein kinase (PKA) to the plasma membrane, and permits functional coupling to the L-type calcium channel. AKAP7 has short isoform AKAP7 alpha and AKAP7 beta with MW 9-15 kDa; long isoform AKAP7 gamma with MW 37-42 kDa. AKAP7alpha was highly expressed only in brain and weakly in lung lysates from WT animals. This antibody can recognize all the isoforms of AKAP7.

Notable Publications

Author	Pubmed ID	Journal	Application
Hongmei Lu	31384238	Clin Proteomics	WB
Brian W Jones	27911261	Elife	WB,IF
Hongquan Liu	41806078	Discov Oncol	WB,IHC

Storage

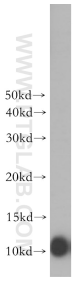
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

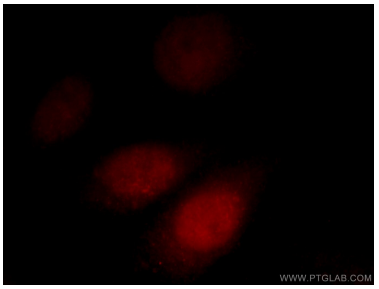
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

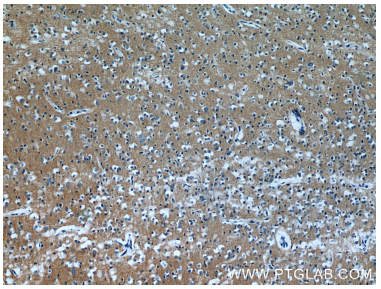
Selected Validation Data



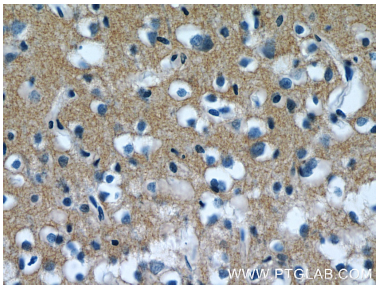
human brain tissue were subjected to SDS PAGE followed by western blot with 12591-1-AP (AKAP7 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using AKAP7 antibody 12591-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12591-1-AP (AKAP7 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12591-1-AP (AKAP7 Antibody) at dilution of 1:50 (under 40x lens).