

AKAP7 Polyclonal Antibody

Catalog number: 12591-1-AP

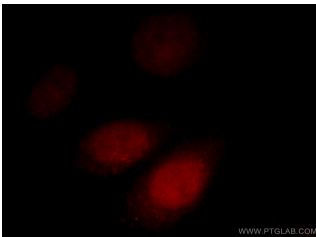
Size: 24 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

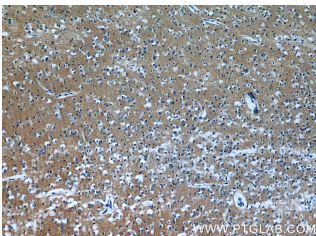
AKAP7; A kinase anchor protein 18 kDa, AKAP 18, AKAP 7 isoforms alpha and beta, AKAP18, AKAP7



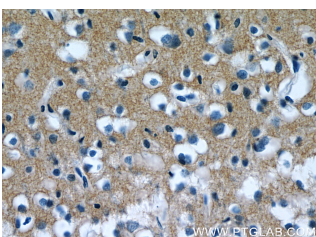
Immunofluorescent analysis of HepG2 cells, using AKAP7 antibody 12591-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



human brain tissue were subjected to SDS PAGE followed by western blot with 12591-1-AP(AKAP7 antibody) at dilution of 1:500



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



Immunohistochemistry of

Background

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 15-18 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.

Applications

Tested applications:	ELISA, IHC, IF, WB, IP
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated AKAP7 MW:	81aa, 9 kDa
Observed AKAP7 MW:	11 kDa, 18 kDa, 37 kDa
Positive WB detected in	Human brain tissue, human heart tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human brain tissue, human heart tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200 IF: 1:10-1:100

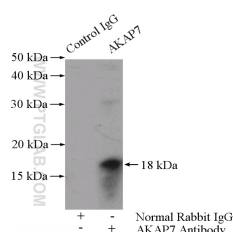
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3297
GenBank accession number:	BC016927
Gene ID (NCBI):	9465
Full name:	A kinase (PRKA) anchor protein 7

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-AKAP7

paraffin-embedded human (IP:12591-1-AP, 4ug;
brain tissue slide using 12591-1-AP(AKAP7 Antibody) at Detection:12591-1-AP 1:300)
dilution of 1:50 (under 40x with mouse brain tissue lysate
lens) 4000ug.