

For Research Use Only

APPL1 Polyclonal antibody

Catalog Number: 19885-1-AP

Featured Product



Basic Information

Catalog Number:

19885-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 280 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13703

GenBank Accession Number:

BC028599

GeneID (NCBI):

26060

UNIPROT ID:

Q9UKG1

Full Name:

adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1

Calculated MW:

709 aa, 80 kDa

Observed MW:

80 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 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Species Specificity:

human, mouse, rat

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, HEK-293 cells, HeLa cells, human heart tissue, HT-1080 cells, mouse brain tissue

IP : mouse brain tissue,

IHC : human breast cancer tissue,

IF/ICC : HepG2 cells,

Background Information

Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (APPL1), a binding partner of Akt2 and an important regulator of insulin signaling, plays a key role in the regulation of insulin secretion [PMID:22615370]. APPL1 interacts with adiponectin receptors and mediates the insulin-sensitizing effects of adiponectin in muscle and endothelial cells. It also participates in nuclear signaling and transcriptional regulation, mostly by modulating the activity of various nuclear factors [PMID:22685329]. Apart from its role in endocytosis and endosomal transport, APPL1 was reported to undergo nucleocytoplasmic shuttling and participate in transcriptional regulation, e.g. by interactions with histone deacetylases (HDACs) [PMID:19686092].

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

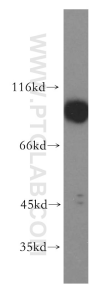
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

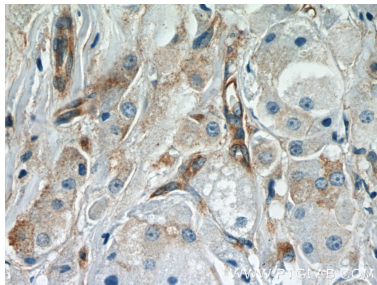
E: proteintech@ptglab.com
W: ptglab.com

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

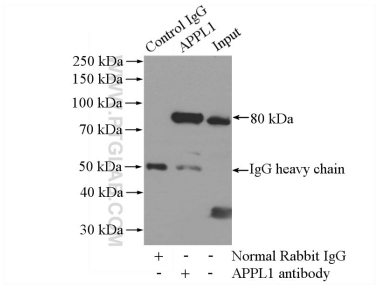
Selected Validation Data



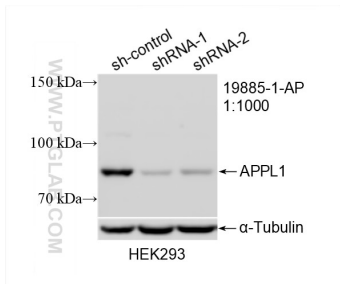
human brain tissue were subjected to SDS PAGE followed by western blot with 19885-1-AP (APPL1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



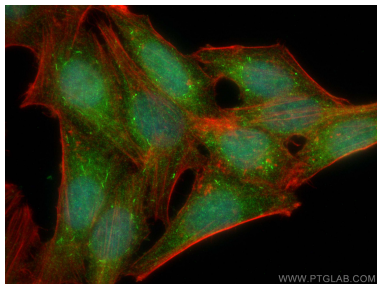
Immunohistochemical analysis of paraffin-embedded human breast cancer slide using 19885-1-AP (APPL1 Antibody) at dilution of 1:50.



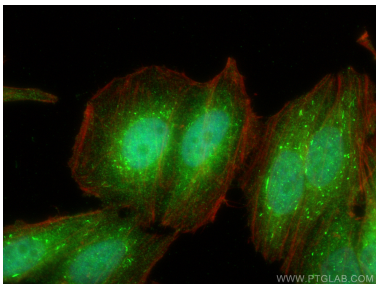
IP result of anti-APPL1 (IP:19885-1-AP, 4ug; Detection:19885-1-AP 1:1000) with mouse brain tissue lysate 2640ug.



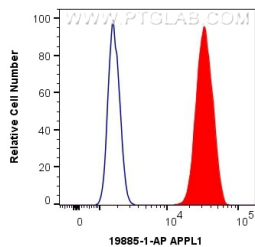
WB result of APPL1 antibody (19885-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APPL1 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using APPL1 antibody (19885-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using APPL1 antibody (19885-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human APPL1 (19885-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).