

APPL1

Polyclonal ANTIBODY

Catalog Number: 19885-1-AP

Basic Information

Catalog Number:
19885-1-AP

Size:
42 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG13703

GenBank Accession Number:
BC028599

GeneID (NCBI):
26060

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

Calculated MW:
709aa, 80 kDa

Observed MW:
80 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Species Specificity:
human, mouse, rat

Note: 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, HT-1080 cells, human heart tissue, mouse brain tissue

IP: mouse brain tissue;

IHC: human breast cancer tissue;

IF: 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].

Notable Publications

Author	Pubmed ID	Journal	Application
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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

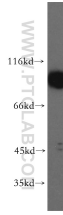
For technical support and original validation data for this product please contact:

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

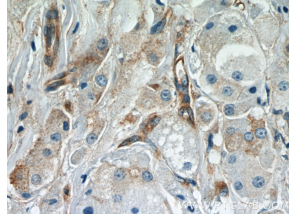
E: proteintech@ptglab.com
W: ptglab.com

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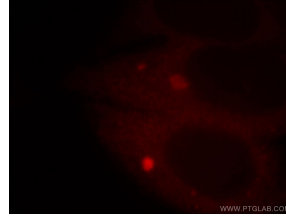
Selected Validation Data



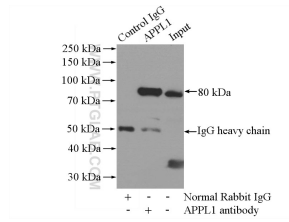
human brain tissue were subjected to SDS PAGE followed by western blot with 19885-1-AP(APPL1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



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



Immunofluorescent analysis of HepG2 cells, using APPL1 antibody 19885-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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