

For Research Use Only

# APPL1 Polyclonal antibody

Catalog Number: 12639-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

12639-1-AP

### Size:

150UL, Concentration: 133 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3334

### GenBank Accession Number:

BC028599

### GeneID (NCBI):

26060

### 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 1:2000-1:10000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat

### 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: C2C12 cells, mouse ovary tissue

IP: mouse brain tissue,

IHC: human ovary tumor tissue,

## Background Information

Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (APPL1), a binding partner of Akt2 and an important regulator of INS signaling, plays a key role in the regulation of INS secretion [PMID:22615370]. APPL1 interacts with adiponectin receptors and mediates the INS-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
Elizabeth J English	29899118	J Biol Chem	WB
Neftali Flores-Rodriguez	25588841	J Cell Sci	IF
Przemysław Zakrzewski	31901088	Biol Reprod	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

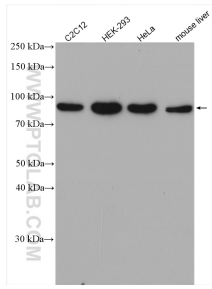
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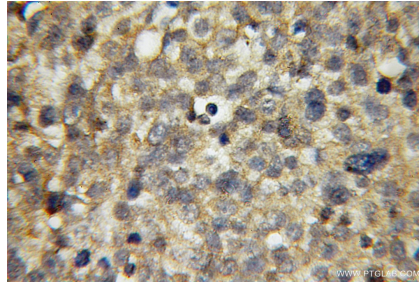
E: proteintech@ptglab.com  
W: ptglab.com

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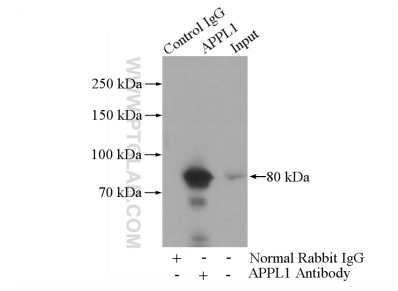
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12639-1-AP (APPL1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 12639-1-AP (APPL1 antibody) at dilution of 1:50 (under 10x lens).



IP Result of anti-APPL1 (IP:12639-1-AP, 4ug; Detection:12639-1-AP 1:500) with mouse brain tissue lysate 4000ug.