

For Research Use Only

# APPL1 Monoclonal antibody

Catalog Number: 68195-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 68195-1-Ig	<b>GenBank Accession Number:</b> BC028599	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26060	<b>CloneNo.:</b> 1B7B11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UKG1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	
<b>Immunogen Catalog Number:</b> AG3334	<b>Calculated MW:</b> 709 aa, 80 kDa	
	<b>Observed MW:</b> 80 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : LNCaP cells, Jurkat cells, rabbit heart tissue, HepG2 cells, pig heart tissue, HEK-293 cells, HeLa cells, rat heart tissue
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	<b>IHC :</b> human colon cancer tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF/ICC :</b> 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 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].

## Storage

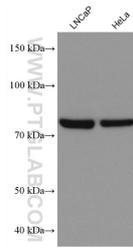
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

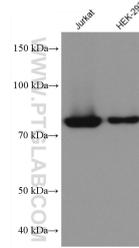
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

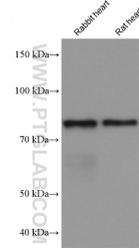
## Selected Validation Data



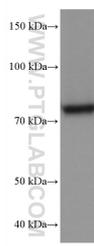
Various lysates were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



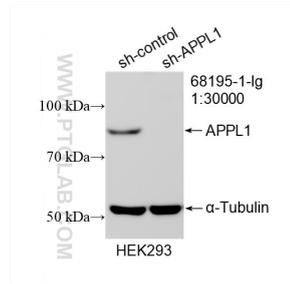
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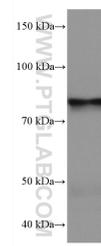
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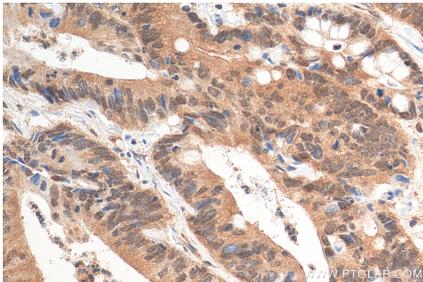
HepG2 cells were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



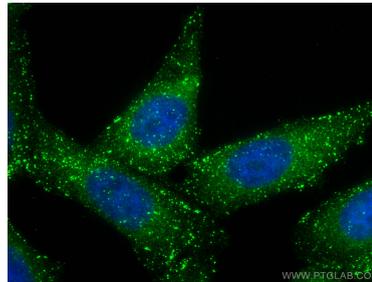
WB result of APPL1 antibody (68195-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APPL1 transfected HEK-293 cells.



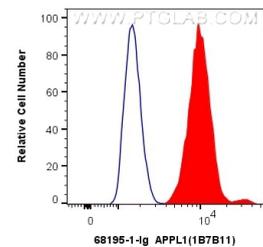
pig heart tissue were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 68195-1-Ig (APPL1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using APPL1 antibody (68195-1-Ig, Clone: 1B7B11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human APPL1 (68195-1-Ig, Clone:1B7B11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).