

For Research Use Only

APPL1 Monoclonal antibody

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



Basic Information

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

Applications

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

Species Specificity:
Human, mouse, rat, rabbit, pig

**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 : LNCaP cells, Jurkat cells, rabbit heart tissue,
HepG2 cells, pig heart tissue, HEK-293 cells, HeLa cells,
rat heart tissue

IHC : human colon 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 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

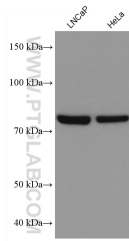
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

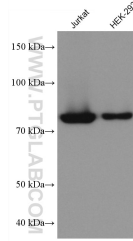
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

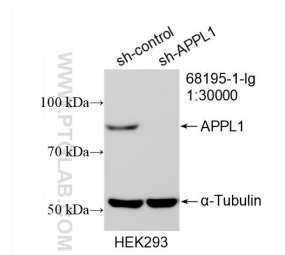
Selected Validation Data



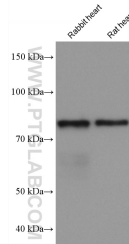
Various lysates were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



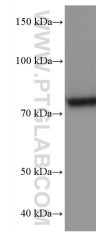
Various lysates were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



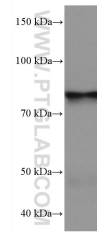
WB result of APPL1 antibody (68195-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APPL1 transfected HEK-293 cells.



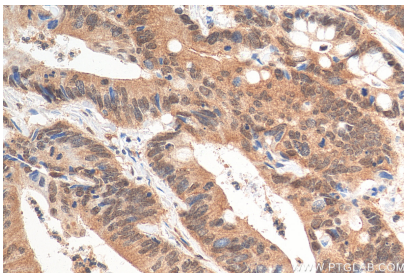
Various lysates were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



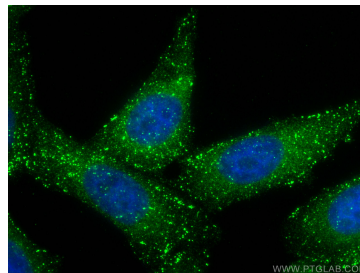
HepG2 cells were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



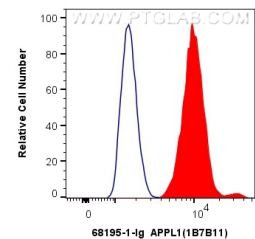
pig heart tissue were subjected to SDS PAGE followed by western blot with 68195-1-Ig (APPL1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).



1X10⁶ 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).