

CHMP2B Polyclonal antibody

Catalog Number: 12527-1-AP

Featured Product

11 Publications

Basic Information

Catalog Number: 12527-1-AP	GenBank Accession Number: BC001553	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 25978	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: chromatin modifying protein 2B	
Isotype: IgG	Calculated MW: 24 kDa	
Immunogen Catalog Number: AG3222	Observed MW: 32 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, 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 : NIH/3T3 cells, human heart tissue, mouse brain tissue, human ileum tissue, human kidney tissue, human placenta tissue, human brain tissue

IHC : human liver cancer tissue, human liver tissue, human brain tissue

IF : HepG2 cells, PFA fixed cells

Background Information

CHMP2B, chromatin-modifying protein 2b, also named CHMP2.5, VPS2B, and VPS2 2, belongs to the chromatin-modifying protein / charged multivesicular body protein (CHMP) family. It is a component of the endosomal sorting complex required for transport III (ESCRT-III), which involves in endosomal and autophagic trafficking of proteins to lysosomes for degradation. Mutations of CHMP2B lead to C-terminal truncation or are replaced with mis-splicing C-termini and cause frontotemporal lobar degeneration (FTLD). In CHMP2B mutation patients, p62- and ubiquitin-positive, but TDP-43 and FUS negative neural inclusions are formed, which may be caused by impaired lysosomal degradation through the autophagy and endosome-lysosome pathways.

Notable Publications

Author	Pubmed ID	Journal	Application
Kun Gao	29743530	Cell Death Dis	IF
Xiaokang Li	35235147	J Cardiovasc Transl Res	IHC
Cristina Ballesteros	29957332	Int J Parasitol Drugs Drug Resist	WB

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

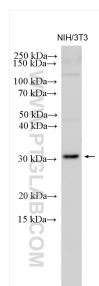
For technical support and original validation data for this product please contact:

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

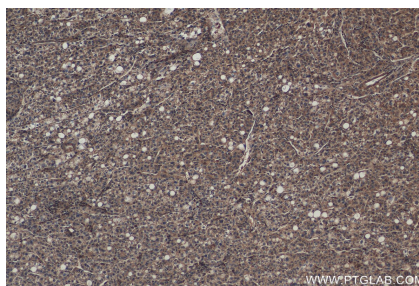
E: proteintech@ptglab.com
 W: ptglab.com

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

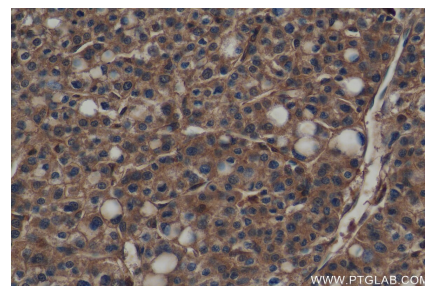
Selected Validation Data



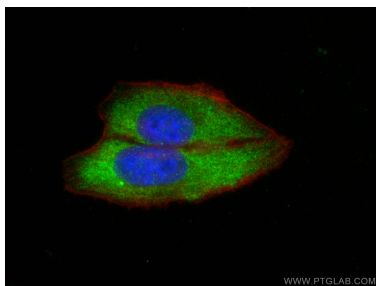
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 12527-1-AP (CHMP2B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



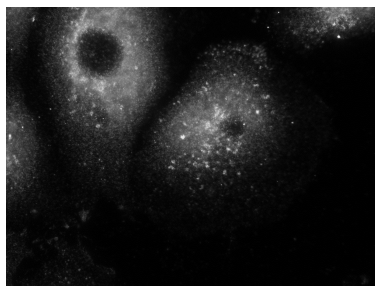
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CHMP2B antibody (12527-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IF result (endosomal stain) of anti-CHMP2B (12527-1-AP) with the cell (PFA fixed) which has been treated with siRNA for VPS4 by Dr. Philip Woodman.