For Research Use Only

CHMP2B Polyclonal antibody

Catalog Number:12527-1-AP Featured Product 15 Publications

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Basic Information

Catalog Number:
12527-1-AP

Size:
450 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3222

GenBank Accession Number:
BC001553

GeneID (NCBI):
25978

UNIPROT ID:
Q9UQN3

Full Name:
chromatin modifying protein 2B

Calculated MW:
24 kDa

Observed MW:
32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:200-1:800
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, 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 : NIH/3T3 cells, human heart tissue, mouse brain tissue, human ileum tissue, human kidney tissue, human placenta tissue, human brain tissue

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

IF/ICC : 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

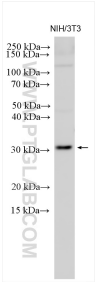
Author	Pubmed ID	Journal	Application
Kun Gao	29743530	Cell Death Dis	IF
Xiaokang Li	35235147	J Cardiovasc Transl Res	IHC
Cristina Ballesteros	29957332	Int J Parasitol Drugs Drug Resist	WB

Storage

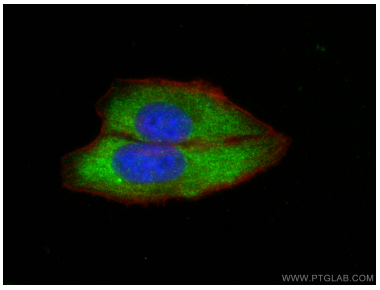
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.



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

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).