

For Research Use Only

# CHMP4B Polyclonal antibody

Catalog Number: 13683-1-AP

Featured Product

61 Publications



## Basic Information

### Catalog Number:

13683-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4544

### GenBank Accession Number:

BC033859

### GeneID (NCBI):

128866

### UNIPROT ID:

Q9H444

### Full Name:

chromatin modifying protein 4B

### Calculated MW:

224 aa, 25 kDa

### Observed MW:

25-33 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, canine

**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 heart tissue, rat heart tissue, HeLa cells, mouse brain tissue

**IHC**: human oesophagus cancer tissue, human heart tissue, human skeletal muscle tissue

**IF/ICC**: C2C12 cells, H9C2 cells

## Background Information

CHMP4B (charged multivesicular body protein 4b) is a human homologue of yeast Snf7p (also named Vps32p) and a member of CHMP family which is implicated in multivesicular body (MVB) sorting. The CHMP proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies. Among seven CHMP family members, only CHMP4 has been found to interact with Alix, a multifunctional adaptor protein in various cellular functions. This antibody is highly specific to the CHMP4B and it doesn't cross-react with other CHMPs as well as other CHMP4s (CHMP4A and CHMP4C). CHMP4B can be detected 25-33 kDa by post-translational modification (PMID:26490837).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shiwei Liu	30232450	Nature	IF
Jalal M Kazan	34761192	iScience	WB,IF
Curtis B Read	36409075	mBio	IF

## 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

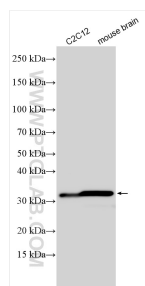
For technical support and original validation data for this product please contact:

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

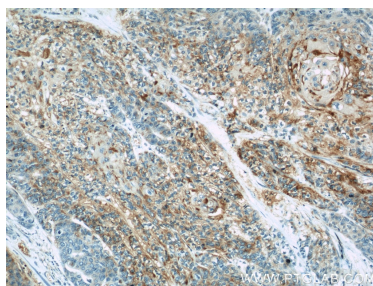
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

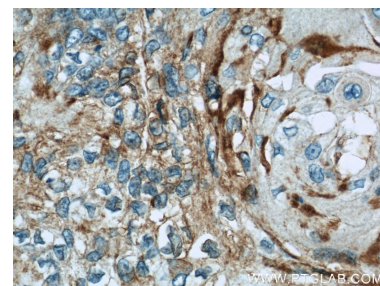
## Selected Validation Data



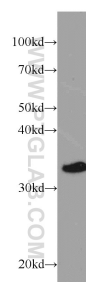
Various lysates were subjected to SDS PAGE followed by western blot with 13683-1-AP (CHMP4B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



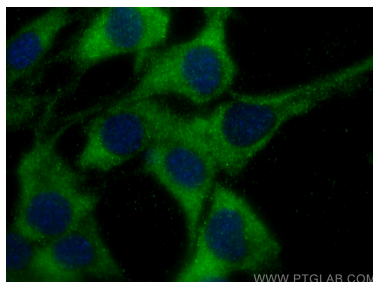
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer using 13683-1-AP (CHMP4B antibody) at dilution of 1:50 (under 10x lens).



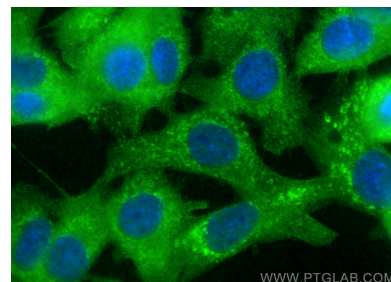
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer using 13683-1-AP (CHMP4B antibody) at dilution of 1:50 (under 40x lens).



mouse heart tissue were subjected to SDS PAGE followed by western blot with 13683-1-AP (CHMP4B antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using CHMP4B antibody (13683-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using CHMP4B antibody (13683-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).