For Research Use Only

CHMP4B Polyclonal antibody

Catalog Number:13683-1-AP Featured Product 49 Publications

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Basic Information

Catalog Number:
13683-1-AP

Size:
150ul , Concentration: 2400 μg/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 1:200-1:1000
IHC 1:20-1:200
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
WB,IP,IF,CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, 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 : mouse heart tissue, rat heart tissue, HeLa cells

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

IF : NIH/3T3 cells, HepG2 cells, 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

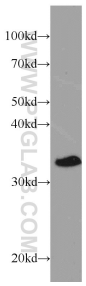
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

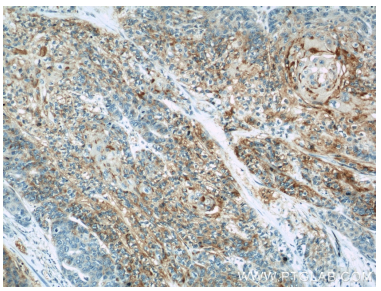
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

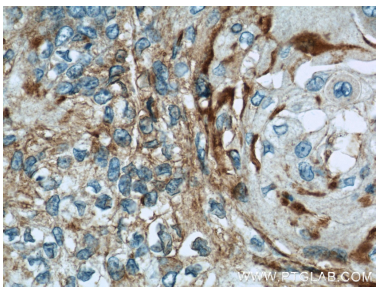
Selected Validation Data



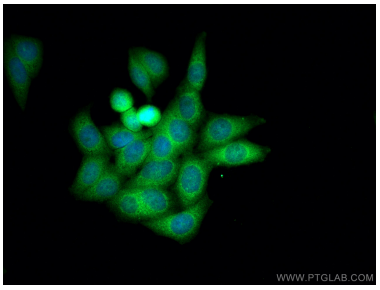
mouse heart tissue were subjected to SDS PAGE followed by western blot with 13683-1-AP (CHMP4B antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



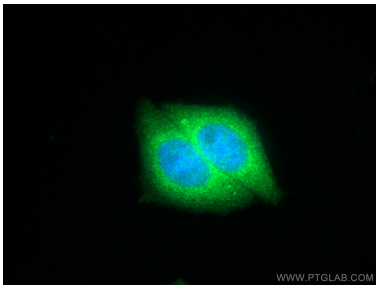
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer using 13683-1-AP (CHMP4B antibody) at dilution of 1:50 (under 10x lens).



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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CHMP4B antibody (13683-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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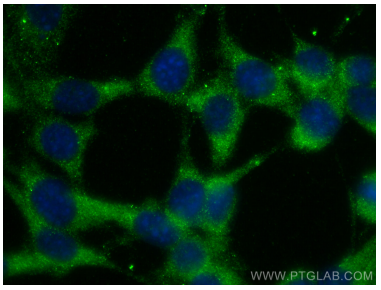
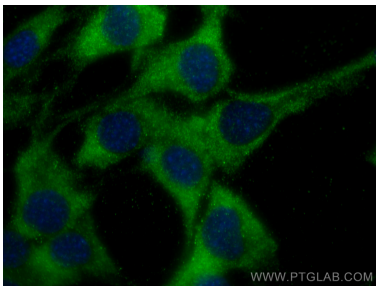


Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using CHMP4B antibody (13683-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C 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).