

CHMP4B Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	37	Rabbit	#Q9H444	128866

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CHMP4B Antibody recognizes endogenous levels of total CHMP4B protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn219 of human CHMP4B protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CHMP4B, the human homologue of yeast Snf7, interacts with Alix and is a core component of the ESCRT-III complex (endosomal sorting for transport complex III) (1,2). The ESCRT system is comprised of multiple protein complexes denoted as ESCRT-0, -I, -II, -III, and VPS4 ATPase that together contribute to a number of membrane fission events, including multivesicular body (MVB) and exosome formulation, viral budding, abscission during cytokinesis, and plasma membrane repair (3,4). Interestingly, it was found that the ESCRT-III complex, including CHMP4B is recruited to the plasma membrane during the regulated process of necrosis, necroptosis, and thereby controls membrane integrity sustaining these cells and allowing continued signaling and cytokine/chemokine secretion (5). Elevated expression of CHMP4B has been associated with neuronal apoptosis following intracerebral hemorrhage (6). In addition, high CHMP4B expression was associated with increased proliferation and resistance to doxorubicin in hepatocellular carcinoma (7).

Background References

1. Katoh, K. et al. (2003) *J Biol Chem* 278, 39104-13.
2. McCullough, J. et al. (2008) *Proc Natl Acad Sci U S A* 105, 7687-91.
3. Henne, W.M. et al. (2013) *Cold Spring Harb Perspect Biol* 5(9): a016766.
4. McCullough, J. et al. (2013) *Annu Rev Biochem* 82, 663-92.
5. Gong, Y.N. et al. (2017) *Cell* 169, 286-300.e16.
6. Shen, J. et al. (2015) *Brain Res* 1597, 1-13.
7. Hu, B. et al. (2015) *Tumour Biol* 36, 2569-81.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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