

Product Name: KD-Validated CHMP2B Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01652

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 23.9kDa

Antigen Information

Gene Name	CHMP2B CHMP2B; Charged Multivesicular Body Protein 2B; CHMP2.5; VPS2B; Charged Multivesicular Body Protein 2b; Chromatin Modifying Protein 2B; DKFZP564O123; Vacuolar Protein-
Alternative Names	Sorting-Associated Protein 2-2; Vacuolar Protein Sorting-Associated Protein 2-2; VPS2 Homolog B (S. Cerevisiae); Chromatin-Modifying Protein 2b; VPS2 Homolog B; FTDALS7; HVps2-2; VPS2-2; CHMP2b; Vps2-2; ALS17; DMT1
Gene ID	25978.0
SwissProt ID	Q9UQN3
Immunogen	A synthesized peptide derived from CHMP2B

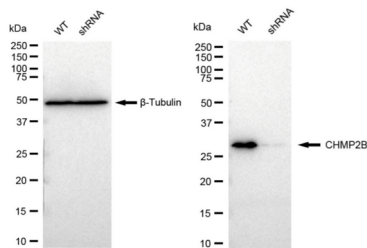
Background

This gene encodes a component of the heteromeric ESCRT-III complex (Endosomal Sorting Complex Required for Transport III) that functions in the recycling or degradation of cell surface receptors. ESCRT-III functions in the concentration and invagination of ubiquitinated endosomal cargos into intraluminal vesicles. The protein encoded by this gene is found as a monomer in the cytosol or as an oligomer in ESCRT-III complexes on endosomal membranes. It is expressed in neurons of all major regions of the brain. Mutations in this gene result in one form of familial frontotemporal lobar degeneration. [provided by RefSeq, Jul 2008]

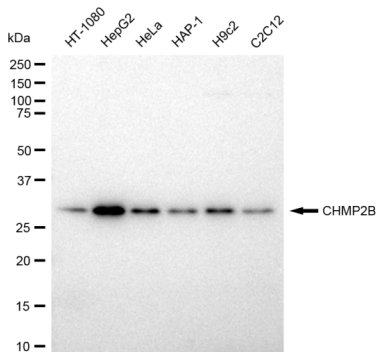
Research Area

Signal Transduction, Neuroscience

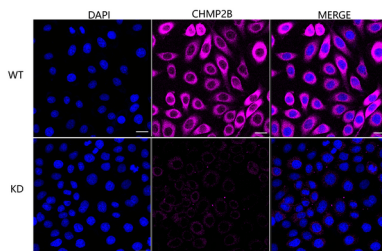
Image Data



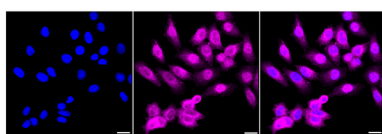
Western blotting analysis using CHMP2B antibody (KVA01652). CHMP2B expression in wild type (WT) and CHMP2B shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with CHMP2B antibody (KVA01652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



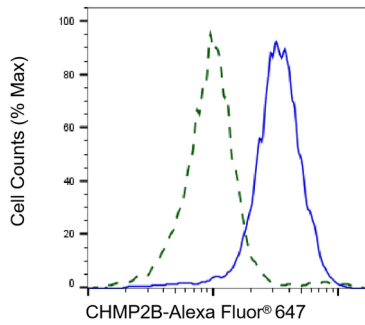
Western blotting analysis using CHMP2B antibody (KVA01652). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CHMP2B antibody (KVA01652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. CHMP2B, charged multivesicular body protein 2B.



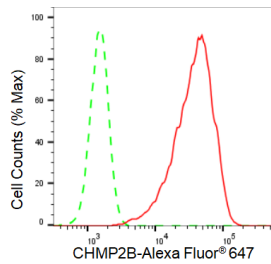
Immunocytochemical staining of HeLa cells using CHMP2B antibody (KVA01652, 1:1,000), Top panel: wild-type (WT); Bottom panel: CHMP2B shRNA knockdown (KD). Nuclei were stained blue with DAPI; CHMP2B was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with CHMP2B antibody (KVA01652, 1:1,000). Nuclei were stained blue with DAPI; CHMP2B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of CHMP2B knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CHMP2B antibody (KVA01652, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CHMP2B expression in HepG2 cells using CHMP2B antibody (KVA01652, 1:2,000). Green, isotype control; red, CHMP2B.