

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat CHMP2B in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CHMP2B Ala2-Asp213 Accession # Q9UQN3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

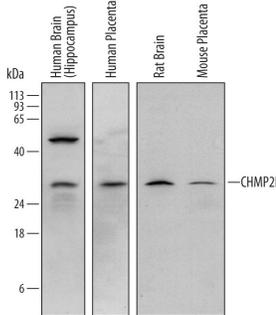
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	3-15 µg/mL	See Below

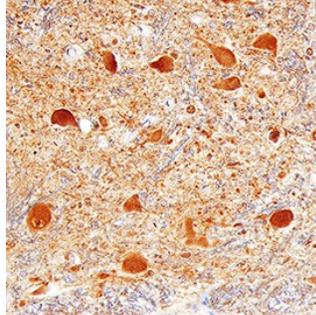
DATA

Western Blot



Detection of Human, Mouse, and Rat CHMP2B by Western Blot. Western blot shows lysates of human brain (hippocampus) tissue, human placenta tissue, rat brain tissue, and mouse placenta tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse/Rat CHMP2B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7509) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CHMP2B at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using *Immunoblot Buffer Group 1*.

Immunohistochemistry



CHMP2B in Human Brain. CHMP2B was detected in immersion fixed paraffin-embedded sections of human brain (medulla) using Sheep Anti-Human/Mouse/Rat CHMP2B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7509) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CHMP2B (CHarged Multivesicular body Protein 2B; also Chromatin-Modifying Protein 2B and Vps2-2) is a 35 kDa member of the SNF family of proteins. It is a cytosolic molecule that interacts with VPS4 and undergoes polymerization to form tubules that project plasma membrane outward, generating an environment conducive to membrane fission and budding. It also appears to participate in the formation of intraluminal vesicles associated with the lysosomal system. CHMP2B is found in striated muscle (heart and skeletal), and particularly in neurons of the CNS. Human CHMP2B is 213 amino acids (aa) in length. It contains one coiled-coil region (aa 25-55), an MIT (microtubule-interacting and trafficking) domain (aa 201-211) and a utilized phosphorylation site at Ser199. There is one alternative splice form that shows a deletion of aa 2-42. Full-length human CHMP2B shares 99% aa identity with mouse CHMP2B, but only 33% aa identity with human CHMP2A.