10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHMP2B Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CHMP2B.
Catalog # AT1521a

Product Information

Application	E
Primary Accession	Q9UQN3
Other Accession	BC001553.1
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2H6-1E6
Calculated MW	23907

Additional Information

Gene ID	25978
Other Names	Charged multivesicular body protein 2b, CHMP25, Chromatin-modifying protein 2b, CHMP2b, Vacuolar protein sorting-associated protein 2-2, Vps2-2, hVps2-2, CHMP2B
Target/Specificity	CHMP2B (AAH01553.1, 1 a.a. ~ 213 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CHMP2B Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

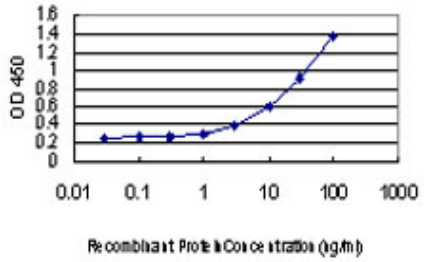
Background

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 intralumenal 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.

References

CHMP2B mutations are rare in French families with frontotemporal lobar degeneration. Ghanim M, et al. J Neurol, 2010 Jul 14. PMID 20625756.FUS, TARDBP, and SOD1 mutations in a Taiwanese cohort with familial ALS. Tsai CP, et al. Neurobiol Aging, 2010 May 14. PMID 20472325.Immunopositivity for ESCRT-III subunit CHMP2B in granulovacuolar degeneration of neurons in the Alzheimer's disease hippocampus. Yamazaki Y, et al. Neurosci Lett, 2010 Jun 21. PMID 20420883.Mutations in CHMP2B are not a cause of frontotemporal lobar degeneration in Finnish patients. Kaivorinne AL, et al. Eur J Neurol, 2010 Apr 20. PMID 20412296.Mutations in CHMP2B in lower motor neuron predominant amyotrophic lateral sclerosis (ALS). Cox LE, et al. PLoS One, 2010 Mar 24. PMID 20352044.

Images



Detection limit for recombinant GST tagged CHMP2B is approximately 1ng/ml as a capture antibody.