

Product datasheet for **TP509799**

Picalm (BC011470) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phosphatidylinositol binding clathrin assembly protein (cDNA clone MGC:19382 IMAGE:2651109), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209799 representing BC011470 Red =Cloning site Green =Tags(s) MSGQSLTDRTAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNS SWVVVFKSLITTHHLMVYGNERFIQYLASRNTLFNLSNFLDKSGLQGYDMSTFIRRYRYLNEKAVSYRQ VAFDFTKVKRGADGVMRTMNTTEKLLKTVPIIQNQMDALLDFNVNSNELTNGVINAAMLLFKDAIRLFAA YNEGIINLLEKYFDMKKNQCKEGLDIYKKFLTRMTRISEFLKVAEQVGDIPDLSQAPSSLLDALEQ HLASLEGKKIKDSTAASRATLTSNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKP HTSLTTAASPVSTSAGGIMTAPAIIDIFSTPSSSNSTSKLPNDLLDLQQPTFHPSVHAMSAAPQGASTWGD PFSATLDAVEDAIPSLNPFLTKSSGDVHLPVIAASDVSTFTTRTPTHEMFVGFSPSPAQPHSSAGLNVD SVFGNKSTNVAVDSSGGLLKPTVASQNSQLPVAKLPPNKLVSDDLSSLANLVGNLIGINGTTKNDVSW QPGEKKTGGSNWQPKVAPTTAWSAATMNGMHFPQYAPPVMAYPATTPTGMIGYGIPPQMGSVPVMTQPT LIYSQPVMRPPNPFPGVSGAQIQFM TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	123.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



[View online »](#)

Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	233489
UniProt ID:	Q7M6Y3
RefSeq Size:	3371
Cytogenetics:	7 50.47 cM
RefSeq ORF:	1965
Synonyms:	MGC19382, CALM, CLTH, MGC36413, MGC36616, PAP180, mKIAA4114
Summary:	Cytoplasmic adapter protein that plays a critical role in clathrin-mediated endocytosis which is important in processes such as internalization of cell receptors, synaptic transmission or removal of apoptotic cells. Recruits AP-2 and attaches clathrin triskelions to the cytoplasmic side of plasma membrane leading to clathrin-coated vesicles (CCVs) assembly. Furthermore, regulates clathrin-coated vesicle size and maturation by directly sensing and driving membrane curvature. In addition to binding to clathrin, mediates the endocytosis of small R-SNARES (Soluble NSF Attachment Protein REceptors) between plasma membranes and endosomes including VAMP2, VAMP3, VAMP4, VAMP7 or VAMP8. In turn, PICALM-dependent SNARE endocytosis is required for the formation and maturation of autophagic precursors. Modulates thereby autophagy and the turnover of autophagy substrates such as MAPT/TAU or amyloid precursor protein cleaved C-terminal fragment (APP-CTF).[UniProtKB/Swiss-Prot Function]