Recombinant Mouse Picalm Protein, Myc/DDK-tagged

Cat. No. Picalm-4852M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phosphatidylinositol binding clathrin assembly protein (cDNA clone MGC:19382 IMAGE:2651109), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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).
Molecular Mass	123.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Picalm phosphatidylinositol binding clathrin assembly protein [Mus musculus (house mouse)]
Official Symbol	Picalm
Synonyms	Picalm; phosphatidylinositol binding clathrin assembly protein; fit; CALM; CLTH; fit-; fit1; fit-1; PAP180; mKIAA4114; phosphatidylinositol-binding clathrin assembly protein; clathrin assembly lymphoid myeloid leukemia
Gene ID	233489
mRNA Refseq	NM_146194
Protein Refseq	NP_666306
UniProt ID	Q7M6Y3

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