

Recombinant Human PICALM Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PICALM-4493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PICALM MS Standard C13 and N15-labeled recombinant protein (NP_009097) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. The protein is involved in AP2-dependent clathrin-mediated endocytosis at the neuromuscular junction. A chromosomal translocation t(10;11)(p13;q14) leading to the fusion of this gene and the MLLT10 gene is found in acute lymphoblastic leukemia, acute myeloid leukemia and malignant lymphomas. The polymorphisms of this gene are associated with the risk of Alzheimer disease. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	70.6 kDa
AA Sequence	MSGQSLTDRITAAQHSVTGSVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIP QLADSLFERTTNSSWVVVFKSLITTHLMVYGNERFIQYLASRNTLFNLSNFLDKSGL QGYDMSTFIRRYRYLNEKAVSYRQVAFDFTKVKRGADGVMRTMNTEKLLKTVPIIQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NQMDALLDFNVNSNELTNGVINAAMLLFKDAIRLFAAYNEGIINLLEKYFDMKKNQC
 KEGLDIYKKFLTRMTRISEFLKVAEQVGIDRGDIPDLSQAPSSLLDALEQHLASLEGKK
 IKDSTAASRATTLSNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELA
 KKPHTSLTTAASPVSTSAGGIMTAPADIFSTPSSSNSTSKLPNDLLDLQQPTFHPSV
 HPMSTASQVASTWGDPFSA TVDAVDDAIPSLNPFLT KSSGDVHLSISSDVSTFTTRT
 PTHEMFVGFPTSPVAQPHPSAGLNVD FESVFGNKSTNVIVDSGGFDELGGLLKPTV
 ASQNQNLPVAKLPPSKLVSDDL DSSLANLVGNLGIGNGTTKNDVNWSQPGEKKLTG
 GSNWQPKVAPTTAWNAATMAPPMAYPATTP TGMIGYGIPPQMGSVPVMTQPTLIY
 SQPVMRPPNPFPGPVSGAQIQFMTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PICALM phosphatidylinositol binding clathrin assembly protein [Homo sapiens (human)]

Official Symbol PICALM

Synonyms PICALM; phosphatidylinositol binding clathrin assembly protein; LAP; CALM; CLTH; phosphatidylinositol-binding clathrin assembly protein; clathrin assembly lymphoid myeloid leukemia protein

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Gene ID	8301
mRNA Refseq	NM_007166
Protein Refseq	NP_009097
MIM	603025
UniProt ID	Q13492
SDS-PAGE	