

Product datasheet for TP313791L

OriGene Technologies, Inc.

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PICALM (NM 007166) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human phosphatidylinositol binding clathrin assembly protein (PICALM),

transcript variant 1, 1 mg

Species: Human
Expression Host: HEK293T

Expression cDNA >RC213791 representing NM_007166
Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MSGQSLTDRITAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNS
SWVVVFKSLITTHHLMVYGNERFIQYLASRNTLFNLSNFLDKSGLQGYDMSTFIRRYSRYLNEKAVSYRQ
VAFDFTKVKRGADGVMRTMNTEKLLKTVPIIQNQMDALLDFNVNSNELTNGVINAAFMLLFKDAIRLFAA
YNEGIINLLEKYFDMKKNQCKEGLDIYKKFLTRMTRISEFLKVAEQVGIDRGDIPDLSQAPSSLLDALEQ
HLASLEGKKIKDSTAASRATTLSNAVSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKP
HTSLTTAASPVSTSAGGIMTAPAIDIFSTPSSSNSTSKLPNDLLDLQQPTFHPSVHPMSTASQVASTWGD
PFSATVDAVDDAIPSLNPFLTKSSGDVHLSISSDVSTFTTRTPTHEMFVGFTPSPVAQPHPSAGLNVDFE
SVFGNKSTNVIVDSGGFDELGGLLKPTVASQNQNLPVAKLPPSKLVSDDLDSSLANLVGNLGIGNGTTKN
DVNWSQPGEKKLTGGSNWQPKVAPTTAWNAATMAPPVMAYPATTPTGMIGYGIPPQMGSVPVMTQPTLIY

SQPVMRPPNPFGPVSGAQIQFM

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK
Predicted MW: 70.6 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

Bioactivity: In vitro binding assay (PMID: <u>26005850</u>)

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.





PICALM (NM_007166) Human Recombinant Protein - TP313791L

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 009097

Locus ID: 8301

UniProt ID: <u>Q13492</u>, <u>A0A024R5P1</u>, <u>E9PN05</u>

RefSeq Size: 3860 Cytogenetics: 11q14.2 RefSeq ORF: 1956

Synonyms: CALM; CLTH; LAP

Summary: This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein

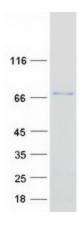
complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. The protein is involved in AP2-dependent clathrin-mediated endocytosis 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. [provided by RefSeq, May 2011]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PICALM protein (Cat# [TP313791]). The protein was produced from HEK293T cells transfected with PICALM cDNA clone (Cat# [RC213791]) using MegaTran 2.0 (Cat# [TT210002]).