

Recombinant Human PICALM Protein, His-tagged

Cat. No. PICALM-2589H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PICALM Protein (Gly19-Leu285) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly19-Leu285
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.2 kDa Accurate Molecular Mass: 34 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

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
Gene ID	8301

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mRNA Refseq	NM_007166
Protein Refseq	NP_009097
MIM	603025
UniProt ID	Q13492

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