
Product Name: KD-Validated PICALM Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00904**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 70.8kDa

Antigen Information

Gene Name	PICALM Phosphatidylinositol Binding Clathrin Assembly Protein; CALM; CLTH; Phosphatidylinositol-
Alternative Names	Binding Clathrin Assembly Protein; Clathrin Assembly Lymphoid Myeloid Leukemia Protein; LAP
Gene ID	8301.0
SwissProt ID	Q13492
Immunogen	A synthesized peptide derived from human PICALM

Background

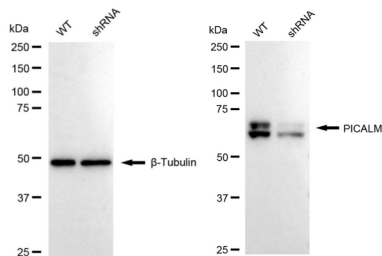
This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of

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]

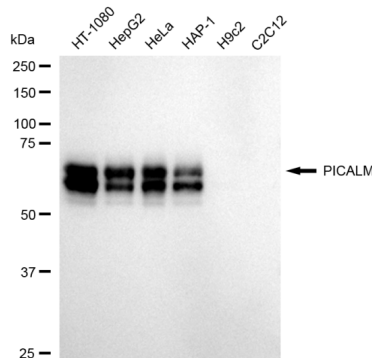
Research Area

Neuroscience, Signal Transduction, Neuroscience

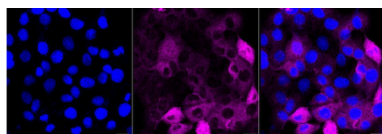
Image Data



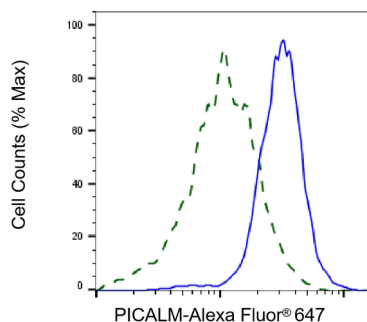
Western blotting analysis using PICALM antibody (KVA00904). PICALM expression in wild type (WT) and PICALM shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with PICALM antibody (KVA00904, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



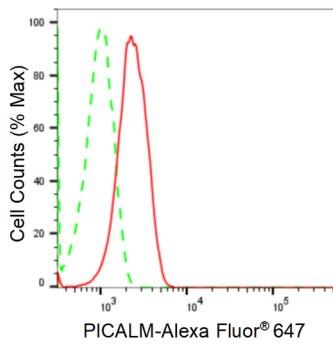
Western blotting analysis using PICALM antibody (KVA00904). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PICALM antibody (KVA00904, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with PICALM antibody (KVA00904, 1:1,000). Nuclei were stained blue with DAPI; PICALM was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Validation of PICALM knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with PICALM antibody (KVA00904, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PICALM expression in HT-1080 cells using PICALM antibody (KVA00904, 1:2,000). Green, isotype control; red, PICALM.