

# Anti-PICALM Rabbit Monoclonal Antibody

Catalog # ABO16759

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC                                                                                                           |
| <b>Primary Accession</b> | <a href="#">Q13492</a>                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                            |
| <b>Isotype</b>           | Rabbit IgG                                                                                                        |
| <b>Reactivity</b>        | Human                                                                                                             |
| <b>Clonality</b>         | Monoclonal                                                                                                        |
| <b>Format</b>            | Liquid                                                                                                            |
| <b>Description</b>       | Anti-PICALM Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human. |

## Additional Information

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|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                         | 8301                                                                                                                                       |
| <b>Other Names</b>                     | Phosphatidylinositol-binding clathrin assembly protein, Clathrin assembly lymphoid myeloid leukemia protein, PICALM, CALM                  |
| <b>Calculated MW</b>                   | 70755                                                                                                                                      |
| <b>Application Details</b>             | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                     |
| <b>Source</b>                          | Eukaryota                                                                                                                                  |
| <b>Contents</b>                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: 32P30<br>A synthesized peptide derived from human PICALM                                                                            |
| <b>Purification</b>                    | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>                         | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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|-----------------|-----------------------------------------------------------------------------|
| <b>Name</b>     | PICALM                                                                      |
| <b>Synonyms</b> | CALM                                                                        |
| <b>Function</b> | 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 (PubMed:[10436022](#), PubMed:[16262731](#), PubMed:[27574975](#)). Furthermore, regulates clathrin-coated vesicle size and maturation by directly sensing and driving membrane curvature (PubMed:[25898166](#)). 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 (PubMed:[21808019](#), PubMed:[22118466](#), PubMed:[23741335](#)). In turn, PICALM- dependent SNARE endocytosis is required for the formation and maturation of autophagic precursors (PubMed:[25241929](#)). Modulates thereby autophagy and the turnover of autophagy substrates such as MAPT/TAU or amyloid precursor protein cleaved C-terminal fragment (APP- CTF) (PubMed:[24067654](#), PubMed:[25241929](#)).

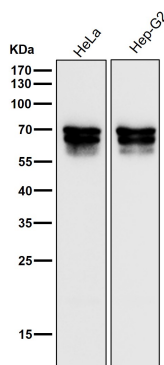
#### Cellular Location

Cell membrane. Membrane, clathrin-coated pit. Golgi apparatus. Cytoplasmic vesicle, clathrin- coated vesicle. Nucleus. Note=Colocalized with clathrin in the Golgi area (PubMed:10436022). Interaction with PIMREG may target PICALM to the nucleus in some cells (PubMed:16491119)

#### Tissue Location

Expressed in all tissues examined.

### Images



All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.