

## Rabbit PICALM Polyclonal Antibody | anti-PICALM antibody

PICALM Antibody

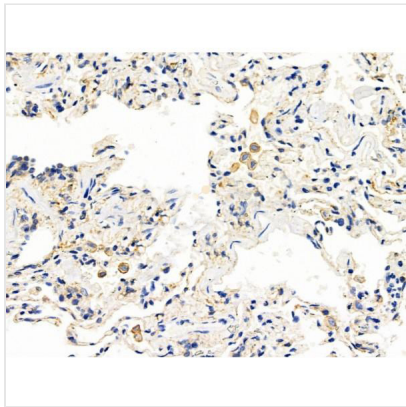
| CATALOG # | HOST   | REACTIVITY                                                                                                            | APPLICATIONS |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| AAA31201  | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%) | ELISA        |

### PRODUCT SYNONYMS

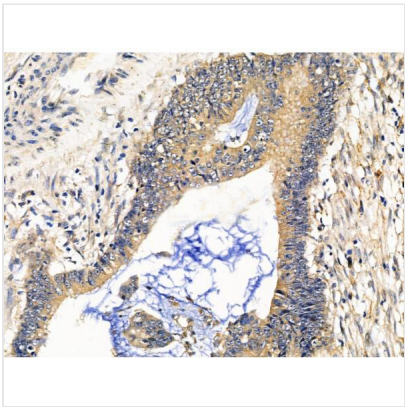
PICALM; Polyclonal Antibody; PICALM Antibody; CALM; Clathrin assembly lymphoid myeloid leukemia; Clathrin assembly lymphoid myeloid leukemia protein; CLTH; LAP; Phosphatidylinositol-binding clathrin assembly protein; PICAL\_HUMAN; anti-PICALM antibody

### PRODUCT SPECIFICATIONS

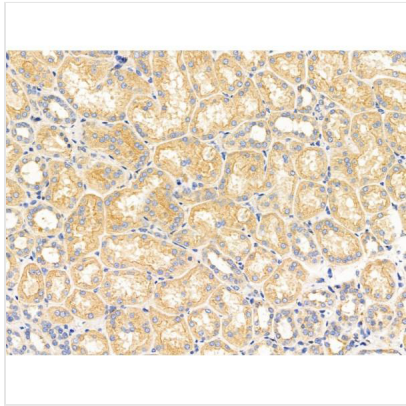
|                                                  |                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                   |
| Reactivity                                       | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)    |
| Clonality                                        | Polyclonal                                                                                                               |
| Isotype                                          | IgG                                                                                                                      |
| Specificity                                      | PICALM Antibody detects endogenous levels of total PICALM.                                                               |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| Form/Format                                      | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol                  |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                   |
| Sequence Length                                  | 652                                                                                                                      |
| Applicable Applications for anti-PICALM antibody | ELISA                                                                                                                    |
| Application Notes                                | WB: 1:500-1:2000<br>IHC: 1:50-1:200<br>ELISA(peptide): 1:20,000-1:40,000                                                 |
| Immunogen                                        | A synthesized peptide derived from human PICALM, corresponding to a region within C-terminal amino acids.                |
| Fragment                                         | Fab fragment                                                                                                             |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                        |



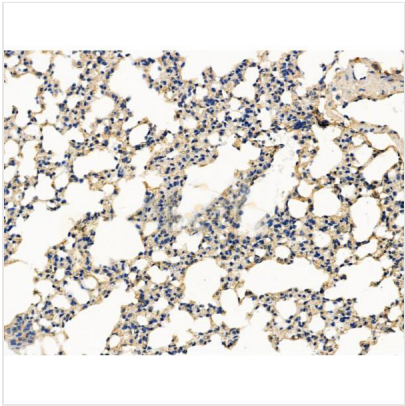
**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Human lung cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



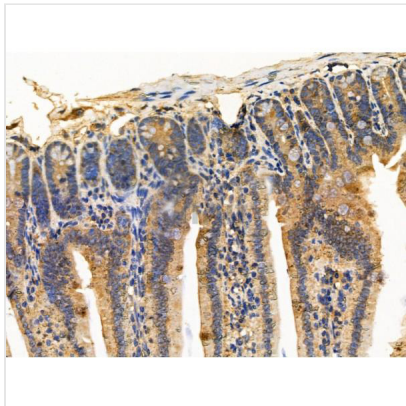
**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



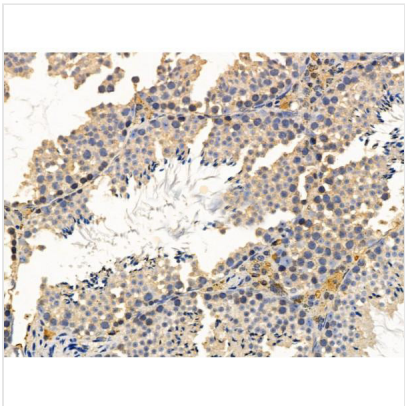
**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry-Paraffin)**  
AAA31201 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

## ADDITIONAL INFORMATION

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|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PICALM antibody | <p>Function: 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:22118466, PubMed:21808019, 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:25241929, PubMed:24067654).</p> <p>Subcellular Location: Cell membrane. Membrane&gt;Clathrin-coated pit. Golgi apparatus. Cytoplasmic vesicle&gt;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).</p> <p>Tissue Specificity: Expressed in all tissues examined.</p> <p>Subunit Structure: Binds to clathrin; involves primarily the C-terminal sequences, but the full-length protein is required for full binding capacity. Binds phosphatidylinositol 4,5- bisphosphate. Interacts with PIMREG; this interaction may change the subcellular location into the nucleus (PubMed:16491119). Interacts with AP2A1 (via its alpha-appendage domain) (PubMed:16262731). Interacts (via N-terminus) with VAMP2; VAMP3; VAMP7 and VAMP8 (Via N-terminus) (PubMed:22118466, PubMed:21808019, PubMed:23741335). Interacts with LC3/MAP1LC3A (PubMed:24067654).</p> <p>Similarity: Belongs to the PICALM/SNAP91 family.</p> |
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## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 56788366                                                                                     |
| NCBI GeneID                      | 8301                                                                                         |
| NCBI Accession #                 | NP_009097                                                                                    |
| NCBI GenBank Nucleotide #        | NP_009097.2                                                                                  |
| UniProt Accession #              | Q13492                                                                                       |
| Molecular Weight                 | Observed Molecular Weight: (Observed)70kD.<br>Predicted Molecular Weight: (Calculated)71kDa. |
| NCBI Official Full Name          | phosphatidylinositol-binding clathrin assembly protein isoform 1                             |
| NCBI Official Synonym Full Names | phosphatidylinositol binding clathrin assembly protein                                       |
| NCBI Official Symbol             | PICALM                                                                                       |
| NCBI Official Synonym Symbols    | LAP; CALM; CLTH                                                                              |
| NCBI Protein Information         | phosphatidylinositol-binding clathrin assembly protein                                       |
| UniProt Protein Name             | Phosphatidylinositol-binding clathrin assembly protein                                       |
| UniProt Gene Name                | <b>PICALM</b>                                                                                |
| UniProt Synonym Gene Names       | CALM                                                                                         |
| UniProt Entry Name               | PICAL_HUMAN                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.