

Rabbit anti-Human EPLIN/LIMA1 Polyclonal Antibody | anti-LIMA1 antibody

Anti-EPLIN/LIMA1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126418	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

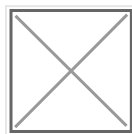
PRODUCT SYNONYMS

EPLIN/LIMA1; Polyclonal Antibody; Anti-EPLIN/LIMA1 Antibody Picoband; anti-LIMA1 antibody

PRODUCT SPECIFICATIONS

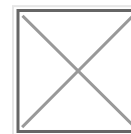
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-LIMA1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human EPLIN/LIMA1 recombinant protein (Position: R9-E744).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of THP-1 cells using anti-EPLIN/LIMA1 antibody (AAA126418). Overlay histogram showing THP-1 cells stained with AAA126418 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EPLIN/LIMA1 Antibody (AAA126418, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



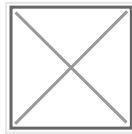
IF (Immunofluorescence)

Figure 4. IF analysis of EPLIN/LIMA1 using anti-EPLIN/LIMA1 antibody (AAA126418). EPLIN/LIMA1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-EPLIN/LIMA1 Antibody (AAA126418) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemisry)

Figure 3. IHC analysis of EPLIN/LIMA1 using anti-EPLIN/LIMA1 antibody (AAA126418).EPLIN/LIMA1 was detected in a paraffin-embedded section of human oncocytoma of the right kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EPLIN/LIMA1 Antibody (AAA126418) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of EPLIN/LIMA1 using anti-EPLIN/LIMA1 antibody (AAA126418).EPLIN/LIMA1 was detected in a paraffin-embedded section of human lung squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EPLIN/LIMA1 Antibody (AAA126418) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

WB (Western Blot)

Figure 1. Western blot analysis of EPLIN/LIMA1 using anti-EPLIN/LIMA1 antibody (AAA126418).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human T-47D whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EPLIN/LIMA1 antigen affinity purified polyclonal antibody (#AAA126418) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EPLIN/LIMA1 at approximately 85 kDa and 100 kDa. The expected band size for EPLIN/LIMA1 is at 85 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LIMA1 antibody	LIM domain and actin-binding protein 1 is a protein that in humans is encoded by the LIMA1 gene. This gene encodes a cytoskeleton-associated protein that inhibits actin filament depolymerization and cross-links filaments in bundles. It is downregulated in some cancer cell lines. Alternatively spliced transcript variants encoding different isoforms have been described for this gene, and expression of some of the variants maybe independently regulated.
Product Categories/Family for anti-LIMA1 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	165905589
NCBI GeneID	51474
NCBI Accession #	NP_001107018
NCBI GenBank Nucleotide #	NM_001113546.1
UniProt Accession #	Q9UHB6 ; Q2TAN7 ; Q59FE8 ; Q9BVF2 ; Q9H8J1 ; Q9HBN5 ; Q9NX96 ; Q9NXC3 ; Q9NXU6 ; Q9P0H8 ; Q9UHB5 ; B2RB09
Molecular Weight	Predicted: 50; 66; 84 kDa Observed: 65 kDa
NCBI Official Full Name	LIM domain and actin-binding protein 1 isoform 1
NCBI Official Synonym Full Names	LIM domain and actin binding 1

NCBI Official Symbol	LIMA1
NCBI Official Synonym Symbols	EPLIN; SREBP3
NCBI Protein Information	LIM domain and actin-binding protein 1; 1110021C24Rik; epithelial protein lost in neoplasm beta; sterol regulatory element binding protein 3
UniProt Protein Name	LIM domain and actin-binding protein 1
UniProt Gene Name	LIMA1
UniProt Synonym Gene Names	EPLIN; SREBP3
UniProt Entry Name	LIMA1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eplin-lima1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/126418>