LIMA1 Polyclonal Antibody

Catalog No	YP-Ab-07687
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	LIMA1 EPLIN SREBP3 PP624
Immunogen	Synthesized peptide derived from part region of human protein AA range: 631-681
Specificity	LIMA1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	LIMA1;LIM domain and actin binding 1;LIM domain and actin-binding protein 1; PP624;SREBP3;LIMA1 EPLIN SREBP3 PP624;LIM domain and actin-binding protein 1 (Epithelial protein lost in neoplasm)
Observed Band	90 kDa, 110 kDa
Calculated Molecular Weight	85 kDa
Cell Pathway	Cytoplasm. Cell junction, focal adhesion . Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, stress fiber . Cell membrane . Expressed in the brush border membrane of the small intestine and colocalizes with NPC1L1 and MYO5B (PubMed:29880681). Colocalizes with PXN at focal adhesions in mesangial cells (PubMed:24694988). Colocalizes with actin stress fibers in quiescent cells. PDGF stimulation induced disassembly of stress fibers and formation of peripheral and dorsal ruffles, where LIMA1 is relocalized (By similarity). .
Tissue Specificity	Highly expressed in placenta, kidney, pancreas, prostate, ovary, spleen and heart. Also detected in lung, liver, brain, skeletal muscle, thymus, testis and intestine. Not detected in leukocytes. Isoform Beta expressed generally at very low levels. Isoform Alpha abundant in epithelial cells from mammary gland, prostate and in normal oral keratinocytes. Low levels in aortic endothelial cells and dermal fibroblasts. Not detectable in myocardium.

Function	domain:Contains at least 2 actin-binding domains, one on each side of the LIM domain. Both domains bind actin monomers and filaments. The C-terminal domain binds filaments more efficiently than the N-terminus.,function:Binds to actin monomers and filaments. Increases the number and size of actin stress fibers and inhibits membrane ruffling. Inhibits actin filament depolymerization. Bundles actin filaments, delays filament nucleation and reduces formation of branched filaments.,induction:Down-regulated in some cancer cell lines. Isoform Alpha induced by serum. Isoform Beta constitutively expressed., similarity:Contains 1 LIM zinc-binding domain.,subcellular location:This cytoskeletal protein co-localizes with actin stress fibers and focal adhesion plaques.,tissue specificity:Highly expressed in placenta, kidney, pancreas, prostate, ovary, spleen and heart. Also detected in lung, liver, bra
Background	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. [provided by RefSeq, Aug 2011],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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