



## Rabbit Anti-LIM1 antibody

SL18271R

<b>Product Name:</b>	LIM1
<b>Chinese Name:</b>	LIM同源框蛋白1抗体
<b>Alias:</b>	hLim-1; Homeo box protein Lim 1; Homeo box protein Lim1; Homeobox protein Lim 1; Homeobox protein Lim-1; Homeobox protein Lim1; LHX 1; LHX1; LHX1_HUMAN; LIM 1; LIM homeo box 1; LIM homeo box protein 1; LIM homeobox 1; LIM homeobox protein 1; LIM-1; LIM/homeobox protein Lhx 1; LIM/homeobox protein Lhx1; MGC126723; MGC138141.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Chimpanzee,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	45kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human LIM1:101-200/406
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or

RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Function:**

Potential transcription factor. May play a role in early mesoderm formation and later in lateral mesoderm differentiation and neurogenesis.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Expressed in the brain, thymus, and tonsils. Expressed in samples from patients with chronic myeloid leukemia (CML) and in 58% of acute myeloid leukemia (AML) cell lines.

**Similarity:**

Contains 1 homeobox DNA-binding domain.  
Contains 2 LIM zinc-binding domains.

**SWISS:**

P48742

**Gene ID:**

3975

**Database links:**

[Entrez Gene: 454600](#) Chimpanzee

[Entrez Gene: 3975](#) Human

[Entrez Gene: 16869](#) Mouse

[Entrez Gene: 257634](#) Rat

[Omim: 601999](#) Human

[SwissProt: Q5IS44](#) Chimpanzee

[SwissProt: P48742](#) Human

[SwissProt: P63006](#) Mouse

[SwissProt: P63007](#) Rat

[Unigene: 443727](#) Human

[Unigene: 4965](#) Mouse

[Unigene: 127825](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)