SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ABLIM1 antibody

Catalog Number: SL11449R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ABLIM1
Immunogen:	KLH conjugated synthetic peptide derived from human ABLIM1: 681-778/778
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow)
Predicted MW.:	88kDa
Subcellular Location:	cytoplasmic
Background:	The C. elegans protein Unc-115 mediates axon guidance by modulating the growth cone Actin cytoskeleton in response to signals received by growth cone receptors. The mammalian homolog of Unc-115 is the Actin-binding LIM protein family member 1 (ABLIM1, also designated Limatin). The ABLIM1 protein has an N-terminal domain that contains four double zinc finger motifs, which conform to the LIM motif consensus sequence. ABLIM1 binds to F-Actin through a dematin-like domain and is expressed in retina, brain and muscle tissue. There are four known isoforms of ABLIM1. The gene encoding ABLIM1 maps to a region of chromosome 10 associated

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	with frequent loss of heterozygosity in human tumors, thus identifying ABLIM1 as a candidate tumor suppressor gene. ABLIM2 and ABLIM3 show highest expression in muscle and neuronal tissues, bind to F-Actin, and are localized on stress fibers. They also have been shown to enhance STARS (striated muscle activator of Rho signaling) dependent activation of serum-response factor (SRF), thereby modulating transcription. **Function:** May act as scaffold protein (By similarity). May play a role in the development of the retina. Has been suggested to play a role in axon guidance. **Subunit:** Binds F-actin. Interacts with ABRA. **Subcellular Location:** Cytoplasm. Cytoplasm > cytoskeleton. Associated with the cytoskeleton. **Tissue Specificity:** Detected in liver, heart, skeletal muscle, brain and retina, where it is concentrated in the inner segment and in the outer plexiform layers. **Similarity:** Contains 1 HP (headpiece) domain. Contains 4 LIM zinc-binding domains. **Database links:** **Entrez Gene:** 3983 Human **Entrez Gene:** 226251 Mouse **Entrez Gene:** 307989 Rat Omim: 602330 Human **SwissProt:** O14639 Human **SwissProt:** Q8K4G5 Mouse **Unigene:** 438236 Human **Unigene:** 538331 Human **Unigene:** 593868 Human **Unigene:** 217161 Mouse **Unigene:** 446592 Mouse **Unigene:** 40404 Rat

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