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ABLIM1 Rabbit pAb

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Catalog # AP54506

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O14639
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87688
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ABLIM1
Epitope Specificity	681-778/778
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm > cytoskeleton. Associated with the cytoskeleton.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 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.

Additional Information

Gene ID	3983
Other Names	Actin-binding LIM protein 1, abLIM-1, Actin-binding LIM protein family member 1, Actin-binding double zinc finger protein, LIMAB1, Limatin, ABLIM1, ABLIM, KIAA0059, LIMAB1
Dilution	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
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	ABLIM1
Synonyms	ABLIM, KIAA0059, LIMAB1
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.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Note=Associated with the cytoskeleton.
Tissue Location	Detected in liver, heart, skeletal muscle, brain and retina, where it is concentrated in the inner segment and in the outer plexiform layers.

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