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LECT1 Rabbit pAb

Catalog # AP97520

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75829
Other Accession	O75829
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37102
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LECT1
Epitope Specificity	231-334/334
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the chondromodulin-1 family.Contains 1 BRICHOS domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The LECT1 gene encodes a glycosylated transmembrane protein which is cleaved to form a mature, secreted protein. The N terminus of the precursor protein shares characteristics with other surfactant proteins and is sometimes called chondrosurfactant protein, although no biological activity has yet been defined for it. The C terminus of the precursor protein contains a 25 kDa mature protein called leukocyte cell derived chondromodulin 1 or chemotaxin 1. The mature protein inhibits angiogenesis and promotes chondrocyte growth. This gene is expressed in the avascular zone of prehypertrophic cartilage and its expression decreases during chondrocyte hypertrophy and vascular invasion. The mature protein likely plays a role in endochondral bone development by permitting cartilaginous anlagen to be vascularized and replaced by bone. It may be involved also in the broad control of tissue vascularization during development. Alternative splicing results in multiple transcript variants encoding different isoforms.

Additional Information

Gene ID	11061
Other Names	BRICD3; CHM-I; CHM1; LECT1; MYETS1; CNMD_HUMAN; CNMD; Chondromodulin; CHMI; Chmd; CNMD_MOUSE; multiple myeloma tumor suppressor 1; leukocyte cell derived chemotaxin 1; BRICHOS domain containing 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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	CNMD (HGNC:17005)
Function	Bifunctional growth regulator that stimulates the growth of cultured chondrocytes in the presence of basic fibroblast growth factor (FGF) but inhibits the growth of cultured vascular endothelial cells. May contribute to the rapid growth of cartilage and vascular invasion prior to the replacement of cartilage by bone during endochondral bone development. Inhibits in vitro tube formation and mobilization of endothelial cells. Plays a role as antiangiogenic factor in cardiac valves to suppress neovascularization.
Cellular Location	[Chondromodulin-1]: Secreted, extracellular space, extracellular matrix. Note=Accumulated in the inter-territorial matrix of cartilage
Tissue Location	Detected in cartilage and cardiac valves (at protein level). Detected in the laminae fibrosa, spongiosa and ventricularis layers of normal cardiac valves (at protein level) Expression is decreased cardiac valves of patients with valvular heart disease (at protein level). Weakly expressed in chondrosarcoma

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.