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LECT1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2729b

Specification

LECT1 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O75829
Other Accession	O70367, O77770, Q9Z1F6, P17404
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**37102**
Antigen Region	**253-281**

LECT1 Antibody (C-term) - Additional Information

Gene ID 11061

Other Names
Leukocyte cell-derived chemotaxin 1, Chondrosurfactant protein, CH-SP, Chondromodulin-1, Chondromodulin-I, ChM-I, LECT1, CHMI

Target/Specificity
This LECT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253-281 amino acids from the C-terminal region of human LECT1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
LECT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LECT1 Antibody (C-term) - 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

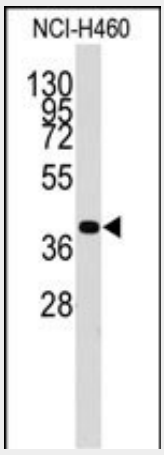
Tissue Location
Detected in cartilage and cardiac valves (at protein level). Detected in the laminae fibrosa, spongiosa and ventricularis layers of normal cardiac valves (at protein level) Expression is decreased cardiac valves of patients with valvular heart disease (at protein level). Weakly expressed in chondrosarcoma

LECT1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

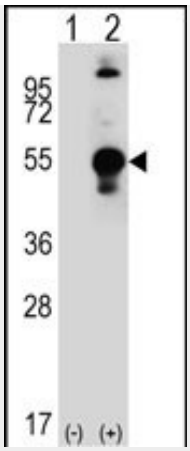
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LECT1 Antibody (C-term) - Images

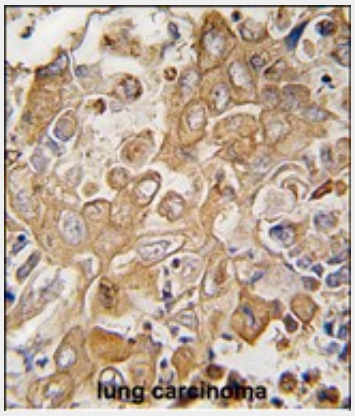


Western blot analysis of anti-LECT1 Antibody (C-term) (Cat.#AP2729b) in NCI-H460 cell line lysates (35ug/lane).LECT1(arrow) was detected using the purified Pab.

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Western blot analysis of LECT1 (arrow) using rabbit polyclonal LECT1 Antibody (C-term) (Cat.#AP2729b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the LECT1 gene.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with LECT1 antibody (C-term) (Cat.#Ap2729b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

LECT1 Antibody (C-term) - Background

LECT1 a glycosylated transmembrane protein that 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 chemotaxin-1 or chondromodulin-1. The mature protein promotes chondrocyte growth and inhibits angiogenesis. This protein 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.

LECT1 Antibody (C-term) - References

Aoyama,T., Biochem. Biophys. Res. Commun. 365 (1), 124-130 (2008)
Yoshioka,M., Nat. Med. 12 (10), 1151-1159 (2006)
Aoyama,T., J. Biol. Chem. 279 (27), 28789-28797 (2004)