



LECT1 Monoclonal Antibody

Catalog No	YP-mAb-07277
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	LECT1 CHMI
Protein Name	Leukocyte cell-derived chemotaxin 1 [Cleaved into: Chondrosurfactant protein (CH-SP); Chondromodulin-1 (Chondromodulin-I) (ChM-I)]
Immunogen	Synthesized peptide derived from human protein . at AA range: 150-230
Specificity	LECT1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	36kD
Cell Pathway	[Chondromodulin-1]: Secreted, extracellular space, extracellular matrix. Accumulated in the inter-territorial matrix of cartilage.; [Chondrosurfactant protein]: Endomembrane system ; Single-pass membrane protein .
Tissue Specificity	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.
Function	developmental stage:Expressed at 9 weeks in developing cartilagenous bone rudiments.,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.,PTM:After cleavage, the post-translationally modified ChM-I is secreted as a glycoprotein.,similarity:Belongs to the chondromodulin-1 family.,similarity:Contains 1 BRICHOS domain.,subcellular location:Accumulated in the inter-territorial matrix of cartilage.,tissue specificity:Cartilage specific. Weakly expressed in chondrosarcoma.,



Background

This gene encodes 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 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 vascularizat

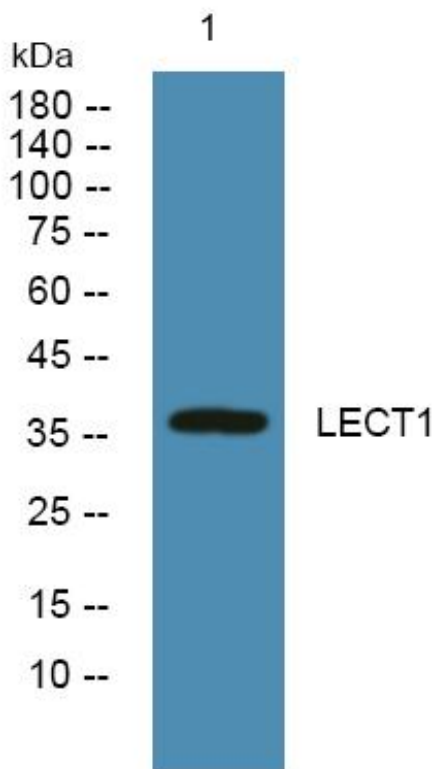
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using LECT1 Monoclonal Antibody