

For Research Use Only

COMP Polyclonal antibody

Catalog Number: 28369-1-AP

4 Publications



Basic Information

Catalog Number:

28369-1-AP

Size:

400 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG28749

GenBank Accession Number:

BC033676

GeneID (NCBI):

1311

UNIPROT ID:

P49747

Full Name:

cartilage oligomeric matrix protein

Calculated MW:

757 aa, 83 kDa

Observed MW:

80-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse skeletal muscle tissue, mouse cartilage tissue, rat cartilage tissue, pig cartilage tissue

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

COMP is a secreted pentameric glycoprotein built from modular units and belongs to the thrombospondin protein family. COMP is expressed by hypertrophic chondrocytes and osteoblasts during endochondral ossification, and its expression is increased during fracture healing. COMP is involved in the assembly of collagen fibrils and other structural matrix components. COMP interacts with a number of cartilage ECM proteins, including fibronectin, collagen I, II IX, XII, and XIV, matrilins, as well as proteoglycans such as aggrecan and others.

Notable Publications

Author	Pubmed ID	Journal	Application
Lin Chen	35273447	Int J Chron Obstruct Pulmon Dis	WB
Aijing Liu	39187041	Eur J Pharmacol	IF
Yueqing Gong	38584705	Front Mol Biosci	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

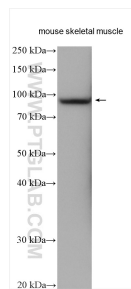
T: 4006900926

E: Proteintech-CN@ptglab.com

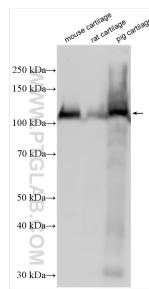
W: ptgcn.com

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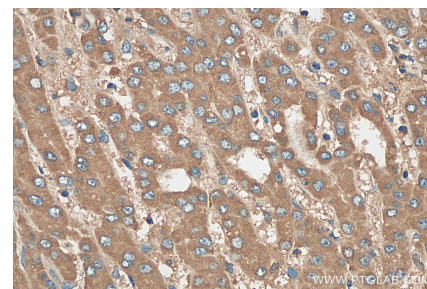
Selected Validation Data



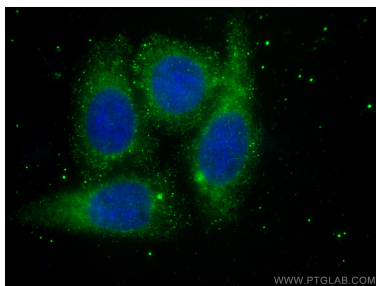
Mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 28369-1-AP (COMP antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 28369-1-AP (COMP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28369-1-AP (COMP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using COMP antibody (28369-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).