10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CILP antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15140

Product Information

Application	WB
Primary Accession	O75339
Other Accession	NM_003613, NP_003604
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	132565

Additional Information

Gene ID	8483
Alias Symbol	CILP-1, HsT18872
Other Names	Cartilage intermediate layer protein 1, CILP-1, Cartilage intermediate-layer protein, Cartilage intermediate layer protein 1 C1, Cartilage intermediate layer protein 1 C2, CILP
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-CILP antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	CILP antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

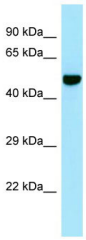
Name	CILP
Function	Probably plays a role in cartilage scaffolding. May act by antagonizing TGF-beta1 (TGFB1) and IGF1 functions. Has the ability to suppress IGF1-induced proliferation and sulfated proteoglycan synthesis, and inhibits ligand-induced IGF1R autophosphorylation. May inhibit TGFB1-mediated induction of cartilage matrix genes via its interaction with TGFB1. Overexpression may lead to impair chondrocyte growth and matrix repair and indirectly promote inorganic pyrophosphate (PPi) supersaturation in aging and osteoarthritis cartilage.

Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Specifically expressed in cartilage. Localizes in the intermediates layer of articular cartilage but neither in the superficial nor in the deepest regions. Specifically and highly expressed in intervertebral disk tissue. Expression increases with aging in hip articular cartilage. Overexpressed in articular hyaline cartilage from patients with calcium pyrophosphate dihydrate crystal deposition disease (CPPD). Expression in intervertebral disk tissue from individuals with lumbar disk disease increases as disk degeneration progresses.

References

Lorenzo P.,et al.J. Biol. Chem. 273:23469-23475(1998).
Nakamura I.,et al.J. Hum. Genet. 44:203-205(1999).
Lorenzo P.,et al.Matrix Biol. 18:445-454(1999).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



WB Suggested Anti-CILP Antibody Titration: 1.0 µg/ml
Positive Control: 721_B Whole Cell