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CILP antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15140

Specification

CILP antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	O75339
Other Accession	NM_003613, NP_003604
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

CILP antibody - C-terminal region - 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.

CILP antibody - C-terminal region - 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

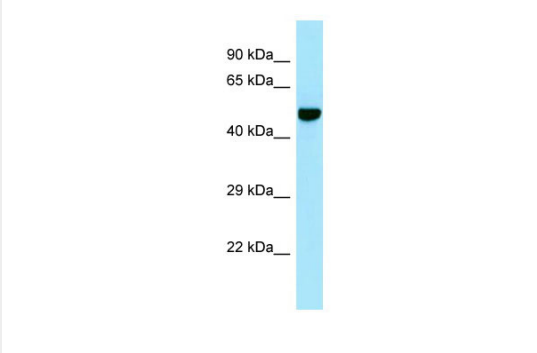
Tissue Location
Specifically expressed in cartilage. Localizes in the intermediates layer of articular cartilage but neither in the superficial nor in the deepest regions. Specifically and highly expressed in intervertebral disk tissue. Expression increases with aging in hip articular cartilage. Overexpressed 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.

CILP antibody - C-terminal region - 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

CILP antibody - C-terminal region - Images



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

CILP antibody - C-terminal region - 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).