

**CILP Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CILP.****Catalog # AT1539a****Specification**

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**CILP Antibody (monoclonal) (M01) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | E                         |
| Primary Accession | <a href="#">O75339</a>    |
| Other Accession   | <a href="#">NM_003613</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | Monoclonal                |
| Isotype           | IgG1 Kappa                |
| Calculated MW     | 132565                    |

**CILP Antibody (monoclonal) (M01) - Additional Information****Gene ID** 8483**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

**Target/Specificity**

CILP (NP\_003604, 129 a.a. ~ 226 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

CILP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

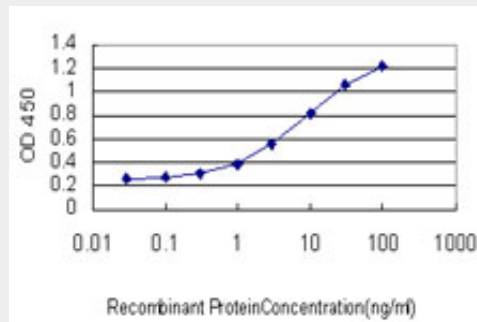
**CILP Antibody (monoclonal) (M01) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CILP Antibody (monoclonal) (M01) - Images**



Detection limit for recombinant GST tagged CILP is approximately 0.1ng/ml as a capture antibody.

### **CILP Antibody (monoclonal) (M01) - Background**

Major alterations in the composition of the cartilage extracellular matrix occur in joint disease, such as osteoarthritis. This gene encodes the cartilage intermediate layer protein (CILP), which increases in early osteoarthritis cartilage. The encoded protein was thought to encode a protein precursor for two different proteins; an N-terminal CILP and a C-terminal homolog of NTPPHase, however, later studies identified no nucleotide pyrophosphatase phosphodiesterase (NPP) activity. The full-length and the N-terminal domain of this protein was shown to function as an IGF-1 antagonist. An allelic variant of this gene has been associated with lumbar disc disease.

### **CILP Antibody (monoclonal) (M01) - References**

Cartilage Intermediate Layer Protein Gene Is Associated With Lumbar Disc Degeneration in Male, but Not Female, Collegiate Athletes. Min SK, et al. Am J Sports Med, 2010 Aug 19. PMID 20724643. The cartilage intermediate layer protein gene is associated with lumbar disc degeneration in collegiate judokas. Min SK, et al. Int J Sports Med, 2009 Sep. PMID 19569011. Phenotypic and population differences in the association between CILP and lumbar disc disease. Virtanen IM, et al. J Med Genet, 2007 Apr. PMID 17220213. Reproducible genetic associations between candidate genes and clinical knee osteoarthritis in men and women. Valdes AM, et al. Arthritis Rheum, 2006 Feb. PMID 16453284. Transcriptional regulation of the cartilage intermediate layer protein (CILP) gene. Mori M, et al. Biochem Biophys Res Commun, 2006 Mar 3. PMID 16413503.