

CILP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CILP.

Catalog # AT1539a

Product Information

Application	E
Primary Accession	O75339
Other Accession	NM_003613
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2C5
Calculated MW	132565

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.

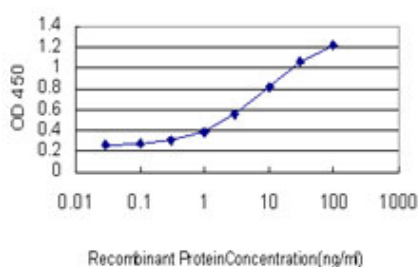
Background

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.

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.