

Product datasheet for **AM26375PU-N**

Collagen II (COL2A1) Mouse Monoclonal Antibody [Clone ID: CIIC1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CIIC1
Applications:	ELISA, FN, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: The typical starting working dilution is 1/10. Immunohistochemistry on Paraffin Sections: The typical starting working dilution is 1/10. Functional Assays. Immunoassays (Coating + Detection).
Reactivity:	Bovine, Chicken, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	The monoclonal antibody CIIC1 reacts with the C1 epitope (triple helical position 358-364) of collagen type II. It has been shown to induce CAIA in naïve mice after injection of lipopolysaccharide (LPS). However, in combination with the monoclonal antibody M2139, binding to the J1 epitope of CII, the pair of monoclonal antibodies induce arthritis in different strains of mice without any other stimulants. The presence of secondary stimulus, LPS, increases the disease incidence and severity. The monoclonal antibody CIIC1 is cross reactive with Rat, Bovine, Chicken and Human CII.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA
Concentration:	lot specific
Purification:	Protein Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.



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Gene Name: collagen type II alpha 1 chain

Database Link: [Entrez Gene 1280 Human P02458](#)

Background: Collagen is a structural protein in bone, cartilage and connective tissue. Collagen type II (CII) is the major collagen of the nucleus pulposa (a component of spine), cartilage and vitreous (a component of the eye). The most commonly used animal model for rheumatoid arthritis (RA) is the collagen-induced arthritis (CIA). Transfer of collagen type II specific monoclonal antibodies induces an acute form of arthritis (collagen type II antibody induced arthritis, CAIA).

Synonyms: COL2, Collagen II