

## Datasheet for ABIN1106745 **anti-COL2 antibody**



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### Overview

|              |                                                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 0.1 mg                                                                                                                                                               |
| Target:      | COL2                                                                                                                                                                 |
| Reactivity:  | Human, Mouse, Rat, Chicken, Cow                                                                                                                                      |
| Host:        | Mouse                                                                                                                                                                |
| Clonality:   | Monoclonal                                                                                                                                                           |
| Conjugate:   | This COL2 antibody is un-conjugated                                                                                                                                  |
| Application: | Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func), Enzyme Immunoassay (EIA) |

### Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clone:                      | CIIC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype:                    | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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 naive 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. |
| Cross-Reactivity (Details): | Species reactivity (tested): Human, mouse, rat chicken, bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification:               | Protein G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | COL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alternative Name: | Collagen Type II ( <a href="#">COL2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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 |
| Gene ID:          | 1280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NCBI Accession:   | <a href="#">NP_001835</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt:          | <a href="#">P02458</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Application Details

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|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only                                              |

## Handling

|                  |                                 |
|------------------|---------------------------------|
| Concentration:   | 0.1 mg/mL                       |
| Buffer:          | PBS, 0.1 % bovine serum albumin |
| Storage:         | 4 °C                            |
| Storage Comment: | Store at 2 - 8 °C.              |