

## Datasheet for ABIN344746 **anti-COL2 antibody**



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### Overview

|              |                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 50 µg                                                                                                                 |
| Target:      | COL2                                                                                                                  |
| Reactivity:  | Human, Mouse, Chicken                                                                                                 |
| Host:        | Mouse                                                                                                                 |
| Clonality:   | Monoclonal                                                                                                            |
| Conjugate:   | This COL2 antibody is un-conjugated                                                                                   |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|               |                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | Purified type II collagen, obtained from adult chicken sternum by limited pepsinization.                                                                                                                                                                                                                                                       |
|               | Type of Immunogen: Purified protein                                                                                                                                                                                                                                                                                                            |
| Isotype:      | IgG1                                                                                                                                                                                                                                                                                                                                           |
| Specificity:  | Recognizes both alpha 1 (II) and alpha 3 (XI) chains which have identical primary structure. It also reacts with pepsin-digested type II collagen. Its epitope is localized in the triple helix of type II collagen. It shows no cross-reaction with type I or type III collagen. Species cross-reactivity: Human, Chicken, Mouse, Salamander. |
| Purification: | Purified                                                                                                                                                                                                                                                                                                                                       |

## Target Details

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Target:           | COL2                                               |
| Alternative Name: | Collagen Type II ( <a href="#">COL2 Products</a> ) |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Approved: ELISA, IHC, IHC-P (1:200), WB (1:200 - 1:400)<br><br>Usage: In Western blotting, antibody reacts with the TCA fragment of lathyritic type II collagen after digestion with mammalian collagenase. Western Blot of CNBr peptides of collagen II shows that this antibody reacts with CB11 fragment which is the site of immunogenic and arthritogenic epitopes along the intact type II molecule. ELISA. Western Blot: 1:200-1:400. Cartilage is an appropriate positive control. Immunohistochemistry (Formalin/Paraffin): 1-2 µg/mL. Staining of paraffin embedded tissues requires digestion of tissue sections with pepsin at 1 mg/mL Tris HCl, pH 2 for 15 minutes at RT or 15 minutes at 37°C. |
| Comment:           | Target Species of Antibody: Chicken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | Lot specific                                                                                                           |
| Buffer:            | 10 mM PBS, pH 7.4, 0.2 % BSA, 15 mM sodium azide.                                                                      |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |