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## **Collagen II Ab-3 (Clone 6B3)**

### **Mouse Monoclonal Antibody**

**Cat. #DLN-08864, -08865, or -08863 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)

**Cat. #DLN-08866 or -08867 (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)

**Cat. #DLN-08868 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)

**Comments:** In Western blotting, Ab-3 reacts with the TC<sup>A</sup> fragment of lathyrin type II collagen after digestion with mammalian collagenase. It also reacts with pepsin-digested type II collagen. Immunoblotting of CNBr peptides of collagen II shows that MAb 6B3 reacts with CB 11 fragment which is the site of immunogenic and arthritogenic epitopes along the intact type II molecule. In Western blotting (but not ELISA), Ab-3 recognizes  $\alpha 1(\text{II})$  as well as  $\alpha 3(\text{XI})$  chain both of which have identical primary structure.

**Epitope:** Triple helix of type II collagen.

**Species Reactivity:** Human, Mouse, Chicken, and Salamander. Others-not known.

**Clone Designation:** 6B3

**Ig Isotype:** IgG<sub>1</sub>

**Immunogen:** Purified type II collagen; obtained from the adult chicken sternum by limited pepsinization

### **Applications and Suggested Dilutions:**

- Immunofluorescence
  - Western Blotting (Not verified)
  - Immunohistology (Formalin/paraffin)  
(Ab 1-2µg/ml for 30 min at RT)
- \* [Staining of formalin/paraffin tissues REQUIRES digestion of tissue sections with pepsin at 1mg/ml Tris-HCl, pH 2.0 for 15 min at RT or 10 min at 37°C]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Cartilage in lung or fetus

**Cellular Localization:** Cartilage matrix

### **Supplied As:**

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

### **Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.



## **DATA SHEET**

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#### ***Key References:***

1. Linsenmayer TF, Hendrix MJ. Biochem Biophys Res Commun 1980; 92(2):440-6
2. Mayne R; et al. Connective Tissue Research, 1994, 31(1):11-21.

#### ***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

#### ***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***

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