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# ImmunO™

Anti-Human Collagen Type II, Mouse  
(Clone II-4CII), Purified IgG  
Catalog #: 63171  
Lot #: M2084

**Form:** Liquid. This monoclonal antibody is supplied as the purified IgG in 0.1 M Na-Phosphate buffer, pH 7.0 containing 1.0% protease-free bovine serum albumin.

**Description:** The anti-human Type II collagen antibody was raised in mice after immunization with collagen Type II from human costal cartilage.

**Concentration:** 1.0 mg/ml

**Clone:** II-4C11

**Isotype:** Mouse IgG<sub>1</sub>/k.

**Performance:** 1. This antibody specifically reacts with the hCL(II) from human costal cartilage and cross reacts with rabbit, bovine and rat CL(II).

2. SDS-PAGE results showed two bands at approximately 55kDa (heavy chain) and 25 kDa (light chain) position when using 1.5 µg/lane in a 12.5% gel (+SH) and coomassie brilliant blue (CBB) stain.

3. Western blotting results, using bovine type II collagen at 2 µg/lane, 2 µg/ml of anti-hCL(II) and HRP conjugated goat anti-mouse immunoglobulins, showed a main band at about 130kDa.

**Applications:** Anti-hCL(II) is suitable for immunohistology (frozen and paraffin sections) and western blotting techniques.

Western Blot: 2 µg/ml

Paraffin Sections: 1-10 µg/ml with hyaluronidase treatment

Frozen Sections: 1-10 µg/ml

**Storage:** Aliquot into working portions and store undiluted at -20°C. Avoid freeze/thaw cycles which can be detrimental to most proteins.

**References:** 1. Burgeson, R.E. and Hollister, D.W., Biochem. Biophys. Res. Commun. 87, 1124-1131, 1979.

2. Kumagai, J. et al., J. Anat. 185, 279-284, 1994.

Manufactured for MP Biomedicals by Daiichi Fine Chemical Company, Ltd.

*Christina Marotta*

Approved by: *Christina Marotta*  
Quality Control Director

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