

## Certificate of Analysis

**Product name/description :**

**Anti-Human Procollagen Type I C-peptide  
 (PIP), Monoclonal (Clone PC5-5)**

**Package Contents :**

**Code No : M011**  
**Lot No : AA08519C**  
**Storage Condition : 4 degrees C \***  
**Expiration Date : August 2014**

- |   |                 |
|---|-----------------|
| 1. Anti-Human Procollagen Type I C-peptide (PIP), Monoclonal<br>(Lyophilized) | 0.1 mg mouse Ig |
| 2. Reconstitution Solution<br>(0.1% NaN <sub>3</sub> in water)                | 0.5 ml          |

\* : Shipping at below RT

**Source :**

**Antibody :**

Monoclonal antibody was produced from the established hybridoma obtained by fusing the mouse myeloma cell line P3U1 with spleen cells of BALB/c mouse after immunization with human procollagen type I C-peptide(PIP) purified from human fibroblast cell culture supernatant. The monoclonal antibody was harvested from ascitic fluid.

**Bovine Serum Albumin (BSA) :**

Manufactured from the plasma of animals of 100% Australian origin that have undergone veterinary ante- and post-mortem inspection.

**Quality Control :**

The lyophilized antibody was dissolved in 50 µl of the supplied Reconstitution Solution. The antibody dilutions were applied for ELISA assay by colorimetric detection using a microtiter plate immobilized with PIP from human cell culture serum free supernatant. The expected antibody titration was obtained.

**Manufacturing Control :**

**Purification :** Antibody was purified by ammonium sulfate precipitation and column chromatography from mouse ascites. The antibody was dissolved in 10 mM PBS, pH7.4, containing 1.0% bovine serum albumin, and then lyophilized.

**BSA treatment :** Process performed to inactivate pathogenic viral agents : The BSA was manufactured using temperatures in excess of 65°C and pHs <5.0.

It is certified that this product meets above specifications.

Approved By:

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Yoshiko Kubota  
Manager, Quality Assurance  
TAKARA BIO INC.

**Safety Information :**

Please refer to our website (\*) for safety information :

(\*)Japanese customers : <http://www.takara-bio.co.jp>

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**Notice To Purchaser :**

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