

**Anti-Procollagen type I C-terminal propeptide (human, PICP)  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**BTE 002-18**

Clone:

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Type I collagen is present in connective tissue and bone where it makes up about 90% of the organic matrix. Type I collagen is produced from type-I procollagen by the proteolytic cleavage of N- and C-telopeptides, which are released into the circulation. The propeptides can be measured in serum as markers of the production of type-I collagen. Elevated values of these propeptides are found in serum from patients with various metabolic or malignant bone diseases. Procollagen type I C-terminal propeptide (PICP) has a molecular mass of approximately 100 kDa. Its normal concentration in serum depends on age and sex (1).

IMMUNOGEN

PICP purified from second-trimester amniotic fluid by affinity chromatography.

SPECIFICITY

BTE 002-08 is specific for native human PICP. Cross-reactivity with PICP from other species has not been determined.

EPI TOPE SPECIFICITY

Epitope differs from that of BTE 002-08

REACTIVITY

BTE 002-18 is especially well suited as detecting antibody in a sandwich ELISA in combination with BTE 002-08.

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

BALB/c mice immunized by subcutaneous injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Not determined	

REFERENCES

1. Hertel NT, Stoltenberg M, Juul A, Main KM, Müller J, Nielsen CT, Lorenzen I, Skakkebaek NE (1993) Serum concentrations of type I and III procollagen propeptides in healthy children and girls with central precocious puberty during treatment with gonadotropin-releasing hormone analog and cyproterone acetate. J Clin Endocrinol Metab 76:924-927.

**CONDITIONS**

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