

**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 volumes, 1 mg/mL  
Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide  
Storage: In the dark at 4-8°C

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	Dilution guideline	References
ELISA	Yes	1/3000	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determine the optimal dilutions for their own purpose.

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**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.