



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

Subclass: IgG₁/κ

PRODUCT NO.	BTE 002-32
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	Collagen type I is present in soft connective tissue and bone where it represents approximately 90% of the organix matrix. Collagen type I is produced from procollagen when two teloterminal propeptides are digested from the precursor and released into the circulation. The propeptide levels can be measured in serum as indicators of collagen production. Elevated values of these propeptides in serum are found in patients with various bone metabolism defects. Procollagen type I C-terminal propeptide (PICP) has a molecular weight of approximately 100 kDa and the normal range in serum is 100-300µg/ml.
IMMUNOGEN	PICP purified from second trimester amniotic fluid by affinity chromatography
SPECIFICITY	BTE 002-32 is specific for for native PICP from amniotic fluid. Crossreactivity to other species is not determined.
EPITOPE SPECIFICITY	Not determined
REACTIVITY	Not determined
CULTURE MEDIUM	RPMI 1640 with 2-10% fetal calf serum
FUSION PARTNER	
IMMUNIZATION	BALB/c mice immunized s.c.

APPLICATION	Method	Usability	Dilution guideline	References
	ELISA	Yes	1:8000	
	Immunoblotting	Not determined		
	Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody on antigen coated directly onto the microtiter well. Users should determine the optimal dilutions for their own purposes.

REFERENCES	<ol style="list-style-type: none"> Hertel NT, Stoltenberg M, Juul A, Main KM, Muller 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. <i>J Clin Endocrinol Metab</i> 76:924-927. Kjeldsen J, Rasmussen M, Schaffalitzky de Muckadell OB, Kronborg O, Junker P (2001) Collagen metabolites in the peripheral and splanchnic circulation of patients with Crohn disease. <i>Scand J Gastroenterol</i> 36:1193-1197. Orum O, Hansen M, Jensen CH, Sorensen HA, Jensen LB, Horslev-Petersen K, Teisner B (1996) Procollagen type I N-terminal propeptide (PINP) as an indicator of type I collagen metabolism: ELISA development, reference interval, and hypovitaminosis D induced hyperparathyroidism. <i>Bone</i> 19:157-163.
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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.