

Procalcitonin Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50260

Clone# BP6237

Predicted Molecular Wt: 13kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P01258

Background:

Procalcitonin (PCT) is a 116 amino acid residue peptide with molecular weight of about 13 kDa. PCT itself has no known hormonal activity. PCT belongs to a group of related proteins including calcitonin gene-related peptides I and II, amylin, adrenomodulin and calcitonin (CAPA peptide family). PCT, like other peptides of CAPA family, appears from the common precursor pre-procalcitonin consisting of 141 amino acids by removal of 25 amino acids from the N-terminus. PCT undergoes successive cleavages to form three molecules: N-terminal fragment (55 a.a.), calcitonin (32 a.a.) and katalcalcin (21 a.a.).

Under normal metabolic conditions, PCT is only present in the C cells of the thyroid gland. In bacterial infection and sepsis, however, intact PCT is found in the blood and, more importantly, its level is related to the severity of bacterial sepsis.

Nowadays, PCT is considered to be one of the earliest and most specific markers of sepsis.

Subcellular location:

Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

A synthetic peptide corresponding to the N-term of Procalcitonin was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

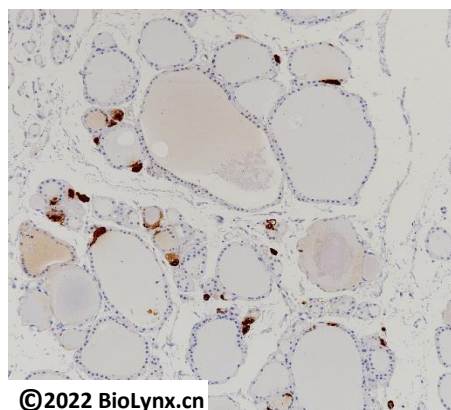
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200


Background References:

1. Kremmer E et al. Anal Bioanal Chem 402:989-95 (2012).
2. Llewelyn MJ, et al. J Antimicrob Chemother 2022 Feb 08.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of C cells of thyroid labelling Procalcitonin with BP6237.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.