

# PROCALCITONIN MONOCLONAL ANTIBODIES

Abbreviation	PCT
Specificity	Human PCT
Accession Number	P01258
Host Species	Mouse
Grade	Affinity Purified

Application	ELISA Assays, Lateral Flow Assays, Academic Research
Target Marker	Procalcitonin (PCT) is a 116 amino acid protein with a molecular weight of approximately 13kDa. Procalcitonin is cleaved into an N-terminal fragment, Calcitonin and Katalcalcin.
Target Marker - Function in Disease	<p>PCT levels in the blood of healthy patients are usually very low (less than 0.05 ng/ml), however, levels can increase quickly within 3-6 hours of systemic infections or inflammation caused by bacterial infections.</p> <p>Whilst anyone can suffer from sepsis, it is most prevalent in infants and the elderly or those with weak immune systems. PCT is a popular biomarker for sepsis as fatality is often preventable if infection is detected quickly.</p> <p>The half-life of PCT is approximately 24 hours, making it an ideal marker for early sepsis diagnosis and can be used to monitor the progression of the disease and the effectiveness of treatment.<sup>1</sup></p>
References	<sup>1</sup> Procalcitonin and the Calcitonin Gene Family of Peptides in Inflammation, Infection, and Sepsis: A Journey from Calcitonin Back to its Precursors J. Becker et al., The Journal of Clinical Endocrinology & Metabolism 89(4):1512-1525

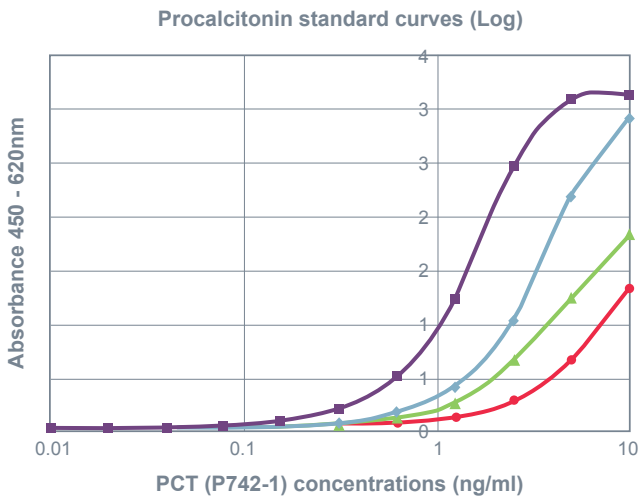
## WHY BBI?

- + Be confident in your results when you choose BBI's monoclonal antibodies for your next assay – The antibodies have been tested in ELISA Immunoassays
- + Matched pair recommendations to save assay development time
- + Higher sensitivity than commercial benchmark antibodies
- + Excellent performance in patient sample testing
- + Competitive bulk pricing
- + Antigen is also available and performance tested in patient samples

Order your evaluation sample today [www.bbisolutions.com](http://www.bbisolutions.com)

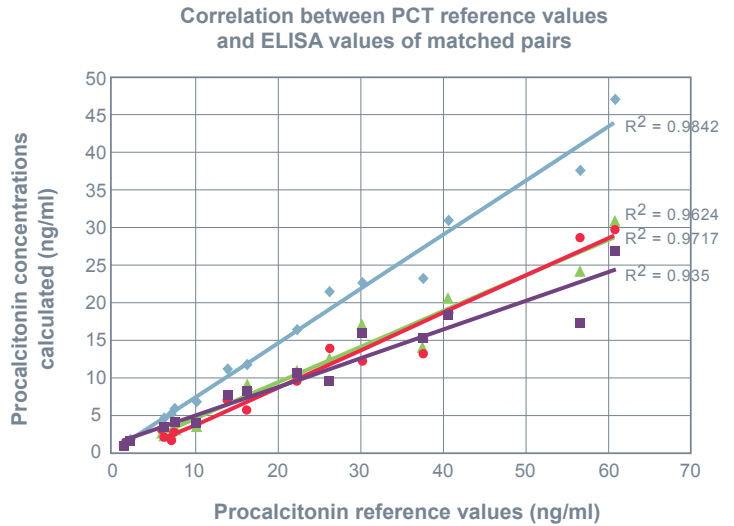
**Sandwich ELISA standard curves for different Procalcitonin antibody matched pairs**

- Commercial benchmark pair
- BM448-K8C7 (Capture) / BM448-V4A1 (Detection)
- BM448-V4A1 (Capture) / BM448-H9F1 (Detection)
- BM448-H9F1 (Capture) / BM448-V4A1 (Detection)



**Patient sample testing**

Correlation between results gained in Sandwich ELISA on Procalcitonin patient samples (SG608-2) and Procalcitonin reference values for the same patient samples measured using a commercial test platform.



**ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING**

Product	Code	Description
Procalcitonin (PCT) Monoclonal Antibody	BM448-V4A1	Recommended for use in sandwich ELISA. Use as the detection antibody with BM448-K8C7 or BM448-H9F1 as the capture antibody, or as capture antibody with BM448-H9F1 as the detection antibody.
Procalcitonin (PCT) Monoclonal Antibody	BM448-H9F1	Recommended for use in sandwich ELISA and chemiluminescence assay. Use as capture or detection antibody paired with BM448-V4A1.
Procalcitonin (PCT) Monoclonal Antibody	BM448-K8C7	Recommended for use in sandwich ELISA. Use as the capture antibody paired with BM448-V4A1 as the detection antibody.

**Related Products**

Product	Code	Description
Procalcitonin (PCT) Recombinant Antigen	P742-1	A purified full sequence Procalcitonin expressed in E. coli with recovery verified by testing on the Biomerieux VIDAS BRAHMS PCT assay.
Procalcitonin (PCT) Positive Serum Samples	SG608-2	Serum clinical specimens from patients with elevated Procalcitonin levels.

**Order a sample today** [sales@bbisolutions.com](mailto:sales@bbisolutions.com)  
 Int: +44 (0) 2920 767 499 USA: 1-800-423-8199 China: +852 355 22996