

# Procalcitonin (PCT)

Item Number: PCT

## Introduction

Discover PCT01, a high-quality monoclonal antibody for human Procalcitonin (PCT) detection via LF, CLIA, FIA. Ideal for IVD kit development, ensure accuracy and sensitivity.

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Attribute	Value
Product Name	PCT01
Description	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
Application	LF, CLIA, FIA
Dosage Form/Appearance	Liquid, may turn slightly opaque during storage
Concentration	5.0 mg/ml (+/- 10 %)
Antibody Subtype	IgG1
Clonality	Monoclonal
Epitope	Anti-h PCT01 antibody recognizes the katacalcin domain of procalcitonin, i.e. the region Asp(96) - Asn(116), as calculated from the peptide sequence of the mature PCT protein, without the signal sequence.
Purity	≥ 95 %
Affinity Constant	KA= 2.2. x 10 <sup>8</sup> 1/M; KD= 4.6 x 10 <sup>-9</sup> M (=4.6 nM)
Related Products	Recombinant PCT antigen
Buffer	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Isoelectric Point	6.4–6.7
Cross-Reactivity	Does not recognize canine procalcitonin.
Specificity	Antibody recognizes human procalcitonin (PCT)

Condition	Value
Storage Conditions	+2-8°C
Transport Conditions	Cold packs

Indicator	Specification
Product Packaging	Complete outer packaging and foil bag, no damage
Test Strip Appearance	Clean, flat, no burrs, no damage, no contamination, material firmly attached
Test Strip Width	Within ±0.80mm of the nominal value (4.50mm)
Migration Speed	≥ 10mm/min
Minimum Detection Limit (PCT)	≤ 0.10 ng/mL
Linearity Range (PCT)	0.1 ng/mL ~ 40.0 ng/mL, r ≥ 0.990
Accuracy	Relative deviation ≤ 20%
Repeatability	≤ 10%
Inter-batch Precision	≤ 15%
Stability	Meets requirements of above indicators after storage at 4~30°C in sealed foil bag until 1 month before expiration date