

Product datasheet for EA200020

Human Procalcitonin (CALCA) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human Procalcitonin (CALCA) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	4.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	78pg/ml-5000pg/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human Procalcitonin
Sensitivity:	16.15g/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">● Procalcitonin Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate● Recombinant Human Procalcitonin Standard (250ng/ml) 0.1 mL● 100x Biotin conjugated Procalcitonin Detection Antibody 0.12 mL● 100x Streptavidin-HRP 0.12 mL● Assay Buffer 30 mL● Standard & Sample Diluent 30 mL● Wash Buffer Concentrate 20X 60 mL● TMB Substrate 12 mL● Stop Solution 12 mL● Plate Sealer 3 pieces



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Background:

Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin (CT). It is produced by parafollicular cells (C cells) of the thyroid and by the neuroendocrine cells of the lung and the intestine. Under normal conditions PCT is cleaved by endopeptidase to form mature hormone calcitonin. During inflammation, expression of PCT is induced by LPS, microbial toxin, or inflammatory mediators such as IL-6 or TNF- α in adipocytes, but the PCT is not cleaved to produce CT, which results in the increase of PCT level during bacterial infection. PCT has become a marker of bacterial infection. Measurement of PCT can be used as a marker of severe sepsis caused by bacteria, and could help diagnose infectious complications of inflammatory bowel disease. In acute meningitis, serum PCT is useful as a biomarker for sepsis. In addition, PCT is often high in patients with chronic kidney disease and end-stage renal disease. In patients with atherosclerosis or coronary heart disease PCT is also valuable as a prognostic marker as its levels correlate with the severity of the illness.

Gene Symbol:

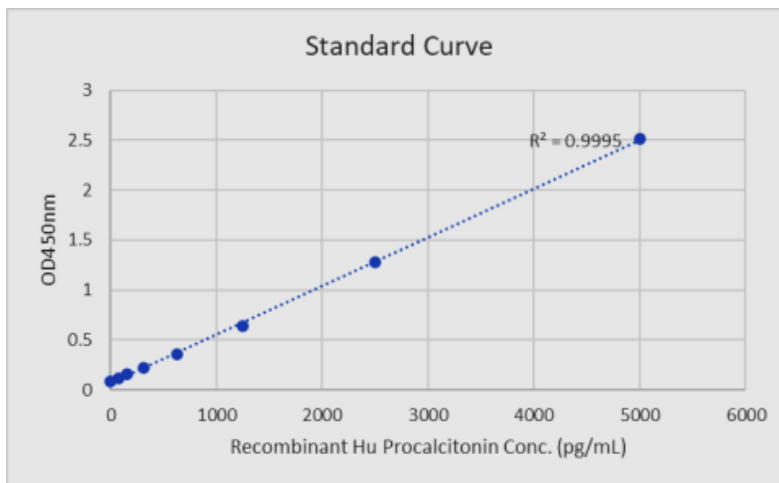
CALCA

Gene ID:

796

Standard Curve:

□
Data image of Human Calcitonin (CALCA) ELISA Kit.

Product images:

Data image of Human Calcitonin (CALCA) ELISA Kit.