

Product datasheet for **TA700571**

Calcitonin (CALCA) Biotinylated Mouse Monoclonal Detection Antibody [Clone ID: OTI1E7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1E7
Applications:	ELISA
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CLACA. The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	15.5 kDa
Gene Name:	calcitonin related polypeptide alpha
Database Link:	NP_001732 Entrez Gene 796 Human P01258



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Background:

Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin. 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 procalcitonin is cleaved by endopeptidase to form mature hormone calcitonin. The level of procalcitonin rises during bacterial infection. It is often classed as an acute phase reactant and 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. 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. In addition, procalcitonin is reliable to monitor recurrence of medullary thyroid carcinoma.

Synonyms:

CALC1; CGRP; CGRP-alpha; CGRP-I; CGRP1; CT; KC; PCT

Matched ELISA Pair:

TA600571

Protein Families:

Druggable Genome, Secreted Protein