

Product datasheet for **EA200030**

Human Calcitonin (CALCA) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human Calcitonin (CALCA) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human Calcitonin
Sensitivity:	0.33pg/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">• Calcitonin Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate• Human Calcitonin Standard (5ng/ml) 0.1 mL• 100x Biotin conjugated Calcitonin Detection Antibody 0.12 mL• 100x SA-HRP Conjugate 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:

Calcitonin is a 32 amino acid peptide hormone secreted by parafollicular cells (also known as C cells) of the thyroid (or endostyle) in humans. It acts to reduce blood calcium (Ca^{2+}), and is functionally an antagonist with parathyroid hormone (PTH) and Vitamin D3. Calcitonin is formed by the proteolytic cleavage of a larger prepropeptide procalcitonin, which is the product of the CALC1 gene (CALCA). Medullary thyroid cancer (MTC), typically produces an elevated serum calcitonin level. Prognosis of MTC depends on early detection and treatment. Calcitonin assay is used in identifying patients with nodular thyroid diseases, which is helpful in making an early diagnosis of medullary carcinoma of thyroid.

Gene Symbol:

CALCA

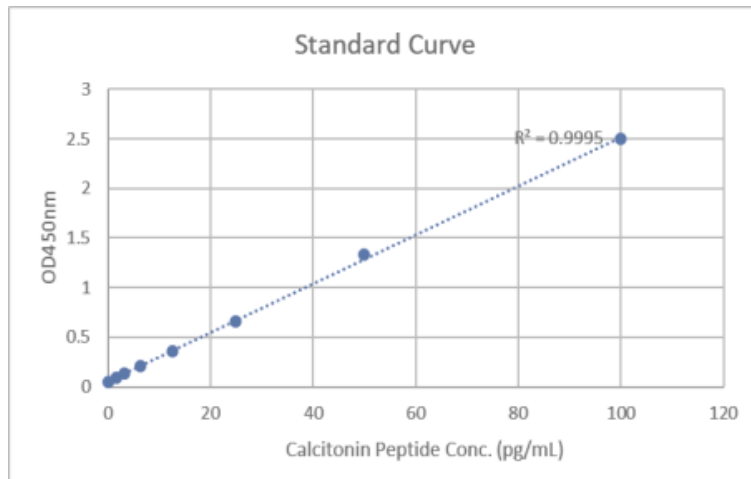
Gene ID:

796

Standard Curve:

□

Data image of Human Calcitonin (CALCA) ELISA Kit.

Product images:

Data image of Human Calcitonin (CALCA) ELISA Kit.