

Human Calcitonin Quantitation Set



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DESCRIPTION

The most prominent clinical syndrome associated with a disordered hypersecretion of Calcitonin (CT) is medullary carcinoma of the thyroid (MTC). MTC is a tumor of the Calcitonin producing C-cells of the thyroid gland. Although MTC is rare, comprising 5 - 10% of all thyroid cancer, it is often fatal. Further, it leant itself to be diagnosed early by serum Calcitonin and total cure for early sub-clinical disease is possible. Neoplastic disorders of other neuroendocrine cells can also elevate Calcitonin. The best example is small cell lung cancer. Other tumors such as carcinoids and islet cell tumors of the pancreas can also result in elevated serum Calcitonin. Increases in serum Calcitonin has also been noted in both acute and chronic renal failure, hypercalciuria and hypercalcemia.

SPECIES REACTIVITY

CT monoclonal antibodies (4B2 and 208) recognize human Calcitonin protein

SENSITIVITY

The limit of detection for antibody pair is less than 1.17 pg/mL

PRODUCT BUFFER

10 mM Hepes , 75 mM NaCl , pH 7.5 , containing 0.05% Procline 300

STORAGE

Stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

PRODUCTS INFORMATION

| Cat. NO | Clone | Ig Subclass |
|---------|-------|-------------|
| D10009 | 4B2 | IgG2b |
| D10010 | 208 | IgG2b |

RECOMMEND ANTIBODY DILUTION

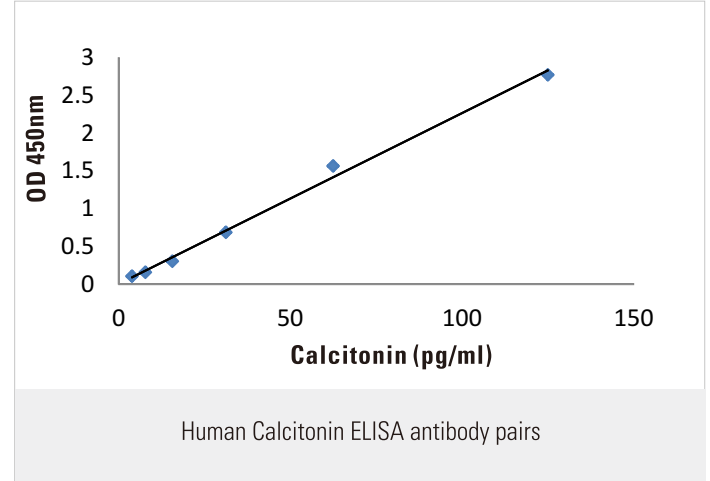
ELISA Capture :1-10 µg/mL

ELISA Detection: 0.1-0.5 µg/mL

Recommended antibody pairing for sandwich immunoassay:

| Capture Detection | D10009 (4B2) | D10010 (208) |
|----------------------|-----------------|-----------------|
| D10009 (4B2) | | + |
| D10010 (208) | + | |

APPLICATION DATA



GENERAL CONDITIONS:

1. Microplate was incubated with streptavidin and blocked with PBS containing 5%BSA one hour at 37°C, followed by 5 washing cycles;
2. Add Calcitonin protein into well as soon as possible;
3. Add Biotinylated antibody against Calcitonin into well;
4. Add HRP-labeled antibody against Calcitonin, incubation for 4.5 hours at 37°C;
5. Absorbance determination of bound peroxidase activity

COMPANION PRODUCTS

- #D10000 PTH[3H19-B] Mouse mAb
- #D10001 PTH[4G4] Mouse mAb
- #D10011 Calcitonin [2H4] Mouse mAb
- #D10012 Calcitonin [406] Mouse mAb
- #D10013 Calcitonin [3L7] Mouse mAb

Reactivity Key: H—human, M—mouse, R—rat, ChHm—Chinese hamster, Mk—monkey, C—chicken, Dm—D.melanogaster, X—xenopus, Z—zebrafish, B—bovine, Dg—dog, Pg—pig, Sc—S.cerevisiae, Ce—C.elegans, Hr—horse