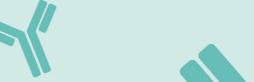
# antibodies .- online.com







## **Calcitonin ELISA Kit**

1	Image



**Publications** 



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Overview		
Quantity:	96 tests	
Target:	Calcitonin (Calca)	
Reactivity:	Rat	
Method Type:	Sandwich ELISA	
Detection Range:	15.63 pg/mL - 1000 pg/mL	
Minimum Detection Limit:	15.63 pg/mL	
Application:	ELISA	
Product Details		
Purpose:	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative	
	measurement in various sample types.	
Sample Type:	Cell Culture Supernatant, Plasma, Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This kit recognizes Rat CT in samples. No Significant cross-reactivity or interference between	
	Rat CT and analogues was observed.	
Sensitivity:	9.38 pg/mL	
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom	

· Plate sealer for 96 wells

· Reference Standard

· Reference Standard & Sample Diluent

- Biotinylated Detection Antibody (100 x concentrate)
- HRP Conjugate (100 x concentrate)
- · Biotinylated Detection Antibody Diluent
- · HRP Conjugate Diluent
- · Substrate Reagent
- · Stop Solution
- Wash Buffer (25 x concentrate)
- · Instruction manual

# Target Details

Target:	Calcitonin (Calca)	
Alternative Name:	Calcitonin (Calca Products)	
Background:	Thyrocalcitonin	
Application Details		
Sample Volume:	100 μL	
Assay Time:	3.5 h	
Plate:	Pre-coated	
Protocol:	<ol> <li>Add 100 μL standard or sample to each well. Incubate for 90 min at 37 °C.</li> <li>Remove the liquid. Add 100 μL Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C.</li> <li>Aspirate and wash 3 times.</li> <li>Add 100 μL HRP Conjugate. Incubate for 30 min at 37 °C.</li> <li>Aspirate and wash 5 times.</li> <li>Add 90 μL Substrate Reagent. Incubate for 15 min at 37 °C.</li> <li>Add 50 μL Stop Solution. Read at 450 nm immediately.</li> <li>Calculation of results.</li> </ol>	
Reagent Preparation:	<ol> <li>Bring all reagents to room temperature (18~25 °C) before use. Follow the Microplate reader manual for set-up and preheat it for 15 min before OD measurement.</li> <li>Wash Buffer: Dilute 30 mL of Concentrated Wash Buffer with 720 mL of deionized or distilled water to prepare 750 mL of Wash Buffer.Note: if crystals have formed in the concentrate, warm it in a 40 °C water bath and mix it gently until the crystals have completely dissolved</li> <li>Standard working solution: Centrifuge the standard at 10,000xg for 1 min. Add 1.0 mL of Reference Standard &amp;Sample Diluent, let it stand for 10 min and invert it gently several times. After it dissolves fully, mix it thoroughly with a pipette. This reconstitution produces a working solution of 1000 pg/mL. Then make serial dilutions as needed. The recommended dilution gradient is as follows: 1000, 500, 250, 125, 62.5, 31.25, 15.63, 0 pg/mL. Dilution</li> </ol>	

method: Take 7 EP tubes, add 500  $\mu$ Lof Reference Standard & Sample Diluent to each tube. Pipette 500  $\mu$ Lof the 1000 pg/mL working solution to the first tube and mix up to produce a 500 pg/mL working solution. Pipette 500  $\mu$ Lof the solution from the former tube into the latter one according to these steps. The illustration below is for reference. Note: the last tube is regarded as a blank. Don't pipette solution into it from the former tube.

- 4. Biotinylated Detection Antibody working solution: Calculate the required amount before the experiment (100 µL/well). In preparation, slightly more than calculated should be prepared. Centrifuge the stock tube before use, dilute the 100x Concentrated Biotinylated Detection Antibody to 1xworking solution with Biotinylated Detection Antibody Diluent.
- 5. Concentrated HRP Conjugate working solution: Calculate the required amount before the experiment (100 μL/well). In preparation, slightly more than calculated should be prepared. Dilute the 100x Concentrated HRP Conjugate to 1x working solution with Concentrated HRP Conjugate Diluent.

#### Sample Preparation:

- It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates.
- If the sample type is not specified in the instructions, a preliminary test is necessary to determine compatibility with the kit.
- If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
  possibility of causing a deviation due to the introduced chemical substance. The
  recommended dilution factor is for reference only.
- Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).

#### Assay Precision:

Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Rat CT were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Rat CT were tested on 3 different plates, 20 replicates in each plate.

Both intra-CV and inter-CV are < 10 %.

Restrictions:

For Research Use only

## Handling

Storage:

4 °C,-20 °C

Storage Comment:

For unopened kit: All reagents should be stored according to the labels on the vials, so they
are stable up to 6 months after receipt of the kit. The Reference Standard, Biotinylated
Detection Antibody, HRP Conjugate and the 96-well stripe plate should be stored at -20 °C

upon receipt while the other reagents should be stored at 4 °C.

2. For used kit: When the kit is used, the remaining reagents need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and zip-seal the foil pouch.

Expiry Date:

6 months

#### **Publications**

Product cited in:

Heinimäki, Malm, Vesikari, Blazevic: "Intradermal and intranasal immunizations with oligomeric middle layer rotavirus VP6 induce Th1, Th2 and Th17 T cell subsets and CD4+ T lymphocytes with cytotoxic potential." in: **Antiviral research**, Vol. 157, pp. 1-8, (2019) (PubMed).

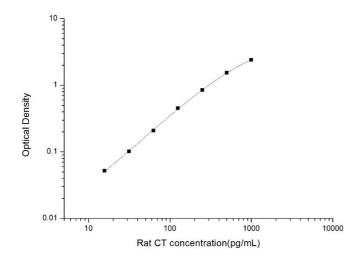
Natividad, Lamas, Pham, Michel, Rainteau, Bridonneau, da Costa, van Hylckama Vlieg, Sovran, Chamignon, Planchais, Richard, Langella, Veiga, Sokol: "Bilophila wadsworthia aggravates high fat diet induced metabolic dysfunctions in mice." in: **Nature communications**, Vol. 9, Issue 1, pp. 2802, (2018) (PubMed).

Breyner, Michon, de Sousa, Vilas Boas, Chain, Azevedo, Langella, Chatel: "Microbial Anti-Inflammatory Molecule (MAM) from Faecalibacterium prausnitzii Shows a Protective Effect on DNBS and DSS-Induced Colitis Model in Mice through Inhibition of NF-kB Pathway." in:

Frontiers in microbiology, Vol. 8, pp. 114, (2017) (PubMed).

Xiang, Gao, Wilson, Heyerick, Plebanski: "Mapping T and B cell epitopes in sperm protein 17 to support the development of an ovarian cancer vaccine." in: **Vaccine**, Vol. 33, Issue 44, pp. 5950-9, (2016) (PubMed).

Brentville, Metheringham, Gunn, Symonds, Daniels, Gijon, Cook, Xue, Durrant: "Citrullinated Vimentin Presented on MHC-II in Tumor Cells Is a Target for CD4+ T-Cell-Mediated Antitumor Immunity." in: **Cancer research**, Vol. 76, Issue 3, pp. 548-60, (2016) (PubMed).



### **ELISA**

Image 1. Typical standard curve