

**CALCA/CT Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2021b****Specification**

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**CALCA/CT Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P01258</a>
Other Accession	<a href="#">NP_001732.1</a> , <a href="#">NP_001029124.1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	15467
Antigen Region	56-84

**CALCA/CT Antibody - Additional Information****Gene ID** 796**Other Names**

Calcitonin, Calcitonin, Katalcalcin, Calcitonin carboxyl-terminal peptide, CCP, PDN-21, CALCA, CALC1

**Target/Specificity**

This CALCA/CT antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 56-84 amino acids from human CALCA/CT.

**Dilution**

WB~~1:500~1000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CALCA/CT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CALCA/CT Antibody - Protein Information****Name** CALCA ([HGNC:1437](#))**Synonyms** CALC1

**Function** [Calcitonin]: Calcitonin is a peptide hormone that causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Calcitonin function is mediated by the calcitonin receptor/CALCR and the CALCR-RAMP2 (AMYR2) receptor complex (PubMed:[35324283](#)).

#### **Cellular Location**

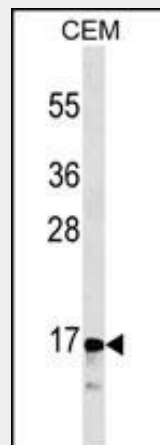
Secreted.

#### **CALCA/CT Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **CALCA/CT Antibody - Images**



CALCA/CT Antibody (Cat. #AM2021b) western blot analysis in CEM cell line lysates (35µg/lane). This demonstrates the CALCA/CT antibody detected the CALCA/CT protein (arrow).

#### **CALCA/CT Antibody - Background**

This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.

#### **CALCA/CT Antibody - References**

Giroux, S., et al. Bone 47(5):975-981(2010)

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Lee, J.Y., et al. Korean J Lab Med 30(4):406-413(2010)  
Giovannella, L., et al. Clin. Chem. Lab. Med. 48(8):1163-1165(2010)  
Hatzistilianou, M. ScientificWorldJournal 10, 1941-1946 (2010) :