

CALCA/CT Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2021a

Product Information

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| Application | WB, E |
| Primary Accession | P01258 |
| Other Accession | NP_001029124.1 , NP_001732.1 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgM |
| Clone Names | 406CT21.4.3 |
| Calculated MW | 15467 |
| Antigen Region | 104-132 |

Additional Information

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|---------------------------|--|
| 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 104-132 amino acids from human CALCA/CT. |
| Dilution | WB~~1:1000~8000 E~~Use at an assay dependent concentration. |
| Format | Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide. |
| 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(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| 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.

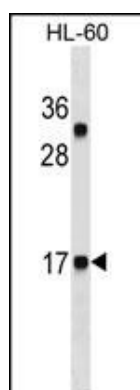
Background

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.

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)
Giovanella, L., et al. Clin. Chem. Lab. Med. 48(8):1163-1165(2010)
Hatzistilianou, M. ScientificWorldJournal 10, 1941-1946 (2010) :

Images



CALCA/CT Antibody (Cat. #AM2021a) western blot analysis in HL-60 cell line lysates (35µg/lane). This demonstrates the CALCA/CT antibody detected the CALCA/CT protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.