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CALCA/CT Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM2021b

Product Information

Application	WB, E
Primary Accession	P01258
Other Accession	NP_001732.1, NP_001029124.1
Reactivity	Human
Predicted	Mouse, Rat, Canine
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	406CT21.4.3
Calculated MW	15467
Antigen Region	56-84

Additional Information

Gene ID	796
Other Names	Calcitonin, Calcitonin, Katacalcin, 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~~1:1000 E~~Use at an assay dependent concentration.
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.

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.

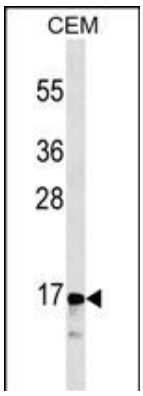
Background

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. #AM2021b) western blot analysis in CEM 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'.