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UCMA Rabbit pAb

Catalog # AP97584

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WVF2
Other Accession	Q8WVF2
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16563
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UCMA
Epitope Specificity	21-120/138
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the UCMA family.
Post-translational modifications	Proteolytically cleaved by a furin-like convertase to generate a persistent C-terminal fragment found in almost the entire cartilage matrix, and affecting osteoblast differentiation. Sulfated on tyrosine residues.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	UCMA is a 138 amino acid secreted protein that is highly expressed in resting chrondrocytes in developing long bones and is thought to function in the early phase of chrondrocyte differentiation. A furin-like protease processes UCMA into an N-terminal 37 amino acid peptide and a C-terminal 74 amino acid peptide, which is referred to as Unique cartilage matrix-associated protein C-terminal fragment (Ucma-C). Introduction of recombinant Ucma-C interferes with osteogenic differentiation of mesenchymal stem cells, MC3T3-E1 preosteoblasts and primary osteoblasts. This suggests that Ucma may be involved in the negative regulation of osteogenic differentiation of osteochondrogenic precursor cells at the cartilage-bone interface and in peripheral zones of fetal cartilage.

Additional Information

Gene ID	221044
Other Names	C10orf49; GRP; GRP/UCMA; UCMA_HUMAN; UCMA; upper zone of growth plate and cartilage matrix associated; chromosome 10 open reading frame 49; Gla-rich protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	UCMA
Synonyms	C10orf49
Function	May be involved in the negative control of osteogenic differentiation of osteochondrogenic precursor cells in peripheral zones of fetal cartilage and at the cartilage-bone interface.
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Predominantly expressed in resting chondrocytes.

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