

bs-12378R**[Primary Antibody]****UCMA Rabbit pAb****Bioss**
ANTIBODIES

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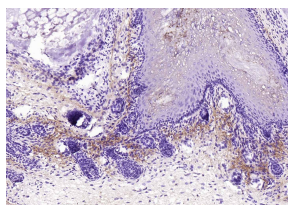
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 221044	SWISS: Q8WVF2	
Target: UCMA		
Immunogen: KLH conjugated synthetic peptide derived from human UCMA: 21-120/138.		
Purification: affinity purified by Protein A		Reactivity: Rat (predicted: Human, Mouse)
Concentration: 1mg/ml		Predicted MW.: 14 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Secreted ,Extracellular matrix
Background: UCMA is a 138 amino acid secreted protein that is highly expressed in resting chondrocytes in developing long bones and is thought to function in the early phase of chondrocyte 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.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (young rat paw); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (UCMA) Polyclonal Antibody, Unconjugated (bs-12378R) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining.