

Datasheet for 600-401-FT8**UCMA Antibody****Overview**

Description:	Anti-UCMA (RABBIT) Antibody - 600-401-FT8
Item No.:	600-401-FT8
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	UCMA is a secreted cartilage-specific protein that was discovered in a screen for differentially expressed genes in retinoic acid-treated mouse chondrocytes. It was also identified in a human chondrocyte EST screen for candidate genes of skeletal dysplasias. UCMA expression is thought to parallel that of collagen II with its expression decreasing with maturation chondrocytes mature. UCMA is processed by a furin-like protease into two fragments, an amino-terminal fragment and a carboxy-terminal fragment (UCMA-C). Application of recombinant UCMA-C to primary osteoblasts, mesenchymal stem cells, and MC3T3-E1 pre-osteoblasts interferes with their osteogenic differentiation, but does not affect expression of chondrocyte-specific genes or chondrocyte proliferation, suggesting that UCMA may be involved in the negative control of osteogenic differentiation of osteochondrogenic precursor cells. At least two isoforms of UCMA are known to exist.
Synonyms:	UCMA Antibody, GRP, C10orf49, Unique cartilage matrix-associated protein, Gla-rich protein, Ucm-C
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UCMA
Reactivity:	Human, Mouse

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-UCMA antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the C-terminus of human UCMA.
Purity/Specificity:	Anti-UCMA Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with UCMA from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8WVF2 • GeneID - 221044 • NCBI - NP_001290047.1

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-UCMA Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 17 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:25,000 - 1:100,000
WB:	2.5-5 µg/mL

Formulation

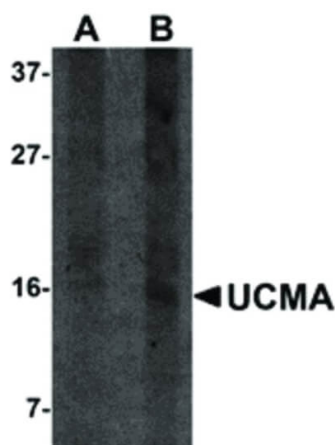
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of UCMA antibody. Lane 1: SW1353 cell lysate with UCMA antibody at 2.5 µg/mL. Lane 2: SW1353 cell lysate with UCMA antibody at 5 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 17 kDa, 16 kDa for UCMA. Other band(s): UCMA splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.