Datasheet for 600-401-FT6

UBC13 Antibody

Overview

Description:	Anti-UBC13 (RABBIT) Antibody - 600-401-FT6
Item No.:	600-401-FT6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Ubiquitin-conjugating enzyme 13 (Ubc13) was initially discovered in S. cerevisiae as a DNA-damage inducible protein involved in the error-free DNA postreplication repair pathway. It has recently been shown to be an important component of the Toll-like receptor and IL-1R signaling pathway. Signals from these pathways are relayed by a number of downstream molecules such as MyD88 and tumor necrosis factor receptor associated factor (TRAF6), ultimately activating various kinases and transcription factors. Ubc13 is part of a dimeric ubiquitin-conjugating enzyme complex also containing UEV1A (ubiquitin-conjugating enzyme E2 variant 1) that together with TRAF6 activates TAK1, a member of the mitogen-activated protein kinase kinase kinase family. The Ubc13-UEV1A complex also mediates the Lys-63 ubiquitination of TRAF-6, and this ubiquitination is essential for TAK1 activation.
Synonyms:	UBC13 Antibody, UBC13, UbcH13, HEL-S-71, UbcH-ben, BLU, Ubiquitin-conjugating enzyme E2 N, Bendless-like ubiquitin-conjugating enzyme
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UBE2N
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-UBC13 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 15 amino acids near the C-terminus of human UBC13.
Purity/Specificity:	Anti-UBC13 Antibody is affinity chromatography purified via peptide column. Cross reactivity with UBC13 from other sources has not been determined.
Relevant Links:	• UniProtKB - P61088 • GeneID - 7334 • NCBI - NP_003339.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-UBC13 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. 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:	1:5000-1:20,000
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	0.5-2 µg/mL

Formulation

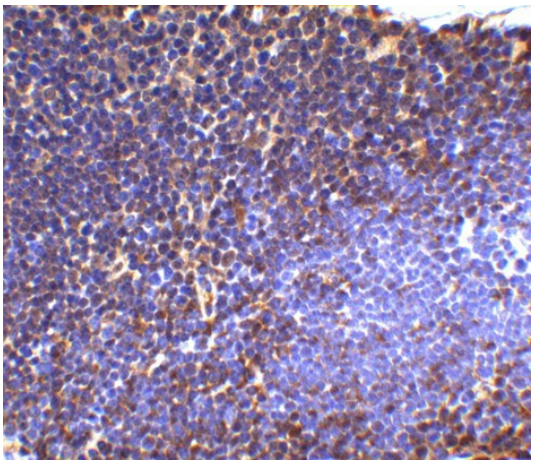
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

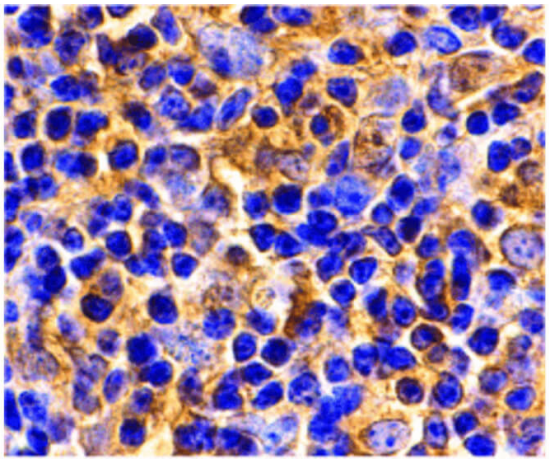
Shipping Condition:	Dry Ice

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.

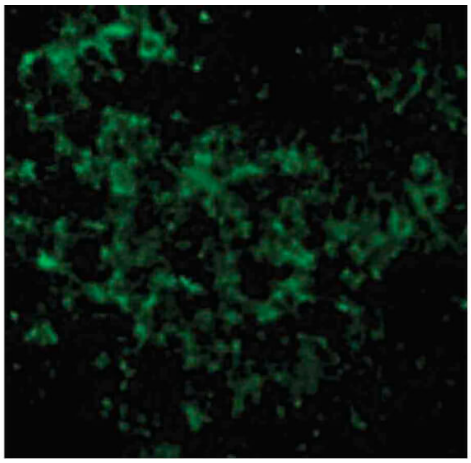
Images



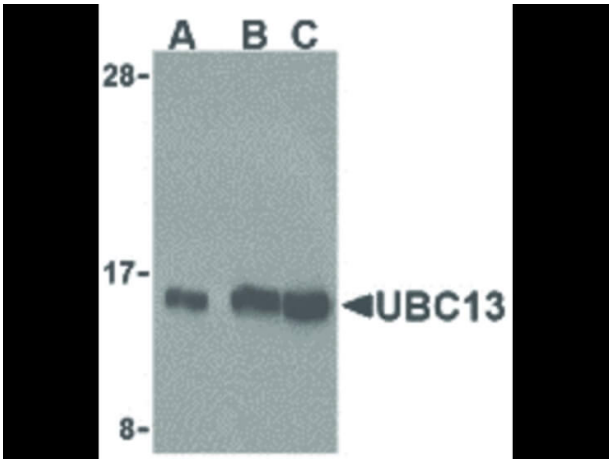
Immunohistochemistry
Immunohistochemistry of UBC13 in mouse thymus tissue with UBC13 antibody at 2.5 µg/ml.



Immunohistochemistry
Immunohistochemistry of UBC13 antibody. Tissue: mouse thymus tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: UBC13 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: UBC13 is cytoplasmic. Staining: UBC13 is stained with toluidine blue.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of UBC13 antibody. Cell Type: mouse thymus cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: UBC13 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: UBC13 cytoplasmic. Staining: UBC13 as green fluorescent signal.



Western Blot
Western Blot of UBC13 antibody in human small intestine cell lysates. Lane A: UBC13 antibody at 0.5 µg/mL. Lane B: UBC13 antibody at 1 µg/mL. Lane C: UBC13 antibody at 2 µg/mL Load: 35 µg per lane. Primary antibody: UBC13 antibody at designated concentrations for overnight at 4°C. 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: 44 kDa, 15 kDa for UBC13. Other band(s): UBC13 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.