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Datasheet for 600-401-EC8

Rubicon Antibody

Overview

Description:	Anti-Rubicon (RABBIT) Antibody - 600-401-EC8
Item No.:	600-401-EC8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Two Beclin-1-interacting proteins, the run domain Beclin-1 interacting and cysteine-rich containing protein (Rubicon) and ATG14L, reciprocally regulate autophagy at different stages. Knockdown of Rubicon caused enhancement of autophagy while that of ATG14L caused a defect in autophagosome formation (1). Rubicon functions as part of a Beclin-1-PIK3C3-containing autophagy complex and is also an essential, positive regulator of the NAPDH oxidase complex (2). Upon microbial infection or TLR2 activation, Rubicon interacts with the CYBA subunit of the NAPDH oxidase complex, leading to a burst of reactive oxygen species and inflammatory cytokines (2).
Synonyms:	Run domain Beclin-1-interacting and cysteine-rich domain-containing protein, Rubicon, Beclin-1 associated RUN domain containing protein, Baron, KIAA0226, RUBCN
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RUBCN
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Rubicon antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the N-terminus of human Rubicon.

Purity/Specificity:	Anti-Rubicon antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Rubicon antibody is human, mouse and rat reactive. Multiple isoforms of Rubicon are known to exist.
Relevant Links:	• UniProtKB - Q92622 • GeneID - 9711 • NCBI - XP_005269431

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Rubicon 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 109 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:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

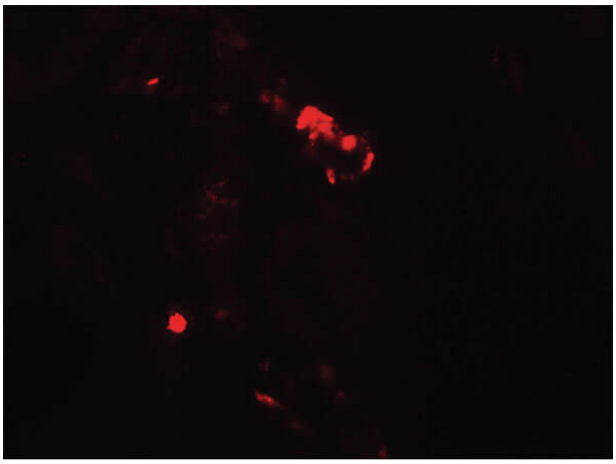
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

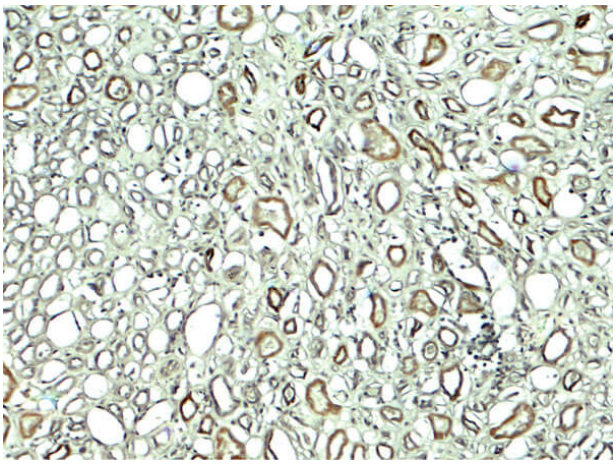
Shipping Condition:	Dry Ice

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.

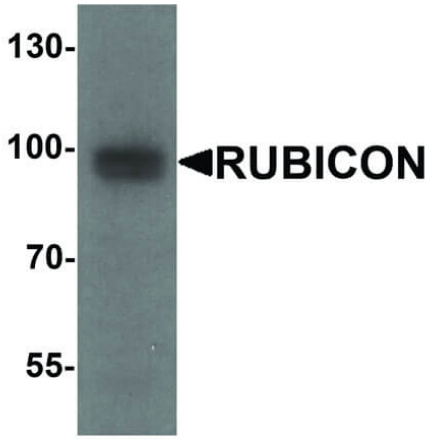
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Rabbit anti-RUBICON antibody. Tissue: human kidney. Primary antibody: RUBICON antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: RUBICON is located on the endosome and lysosome. Staining: RUBICON as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of Rabbit anti-RUBICON antibody. Tissue: human kidney. Primary antibody: RUBICON antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: RUBICON is located on the membrane. Staining: RUBICON as precipitated brown signal.



Western Blot
Western Blot of Rabbit anti-RUBICON antibody. Lane A:293 cell lysate. Primary antibody: RUBICON antibody at 1 µg/mL overnight at 4℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 90/101/109 kDa, 91/99 kDa for RUBICON.

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.