

Datasheet for 600-401-Y46**APOBEC3B Antibody****Overview**

Description:	Anti-APOBEC3B (RABBIT) Antibody - 600-401-Y46
Item No.:	600-401-Y46
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The Apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like (APOBEC) 3 is a multi-isoform member of the cytosine deaminase family of enzymes that act on monomeric nucleoside and nucleotide substrates. Similar to TRIM5 alpha which targets incoming retroviral capsids, APOBEC3 plays a major role in cellular defense against retroviral infection. APOBEC3B has also been shown to be upregulated in several cancers; it is thought that APOBEC3B-catalyzed genomic uracil lesions are responsible for a large proportion of mutations in multiple distinct cancers.
Synonyms:	APOBEC3B Antibody, A3B, ARP4, ARCD3, PHRBNL, APOBEC1L, bK150C2.2, DJ742C19.2Phorbolin-1-related protein, A3B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	APOBEC3B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-APOBEC3B antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the N-terminus of human APOBEC3B.

Purity/Specificity: Anti-APOBEC3B antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. APOBEC3B antibody is human, mouse and rat reactive. At least three isoforms of APOBEC3B are known to exist; this antibody will detect all three. APOBEC3B antibody may cross-react with APOBEC3D.

Relevant Links:

- [UniProtKB - Q9UH17](#)
- [GeneID - 9582](#)
- [NCBI - NP_004891](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-APOBEC3B 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 46 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 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

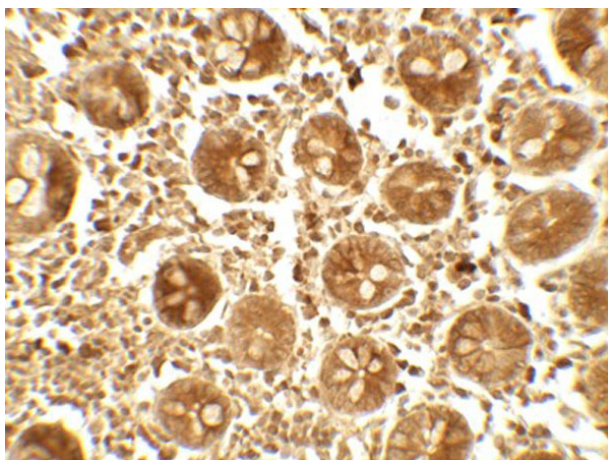
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

Images

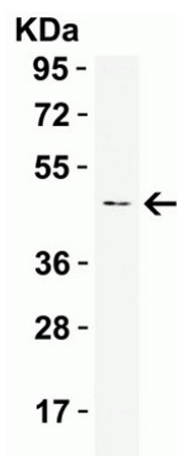


Immunohistochemistry

Immunohistochemistry of APOBEC3B.

Tissue: human small intestine tissue.

Primary Antibody: APOBEC3B antibody at 5 µg/mL.

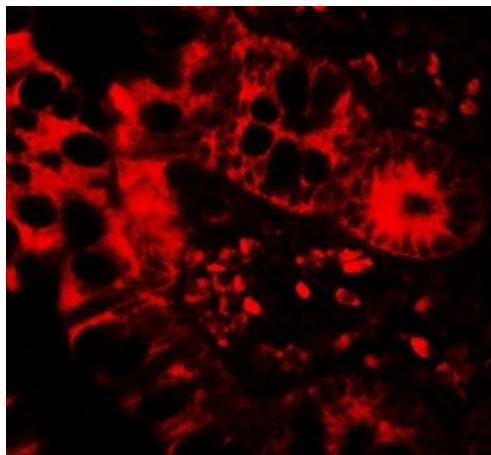


Western Blot

Western blot of APOBEC3B.

Load: HepG2 cell lysate.

Primary Antibody: APOBEC3B antibody at 1 µg/ml.

**Immunofluorescence Microscopy**

Immunofluorescence of APOBEC3B.

Tissue: human small intestine tissue.

Primary Antibody: APOBEC3B antibody at 20 µg/mL.

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.