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Datasheet for 600-401-AZ3

EFCAB4B Antibody

Overview

Description:	Anti-EFCAB4B (RABBIT) Antibody - 600-401-AZ3
Item No.:	600-401-AZ3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	EFCAB4B, also known as Calcium release-activated calcium channel regulator 2A, is a novel Ca2+-binding EF-hand protein that is thought to play a key role in store-operated Ca2+ entry in T-cells by regulating CRAC channel activation. EFCAB4B acts as a cytoplasmic calcium-sensor that forms a complex with ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca2+ concentration. A closely related protein, EFCAB4A, is likely to play a similar role as EFCAB4B, but the detailed function of EFCAB4A is still under investigation.
Synonyms:	EFCAB4B Antibody, CRACR2A, CRACR2A, EF-hand calcium-binding domain-containing protein 4B, Calcium release-activated calcium channel regulator 2A, CRAC channel regulator 2A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CRACR2A
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-EFCAB4B antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the C-terminus of human EFCAB4B.

Purity/Specificity:	Anti-EFCAB4B Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with EFCAB4B from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BSW2 • GeneID - 84766 • NCBI - NP_116069

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-EFCAB4B 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
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1 µg/mL

Formulation

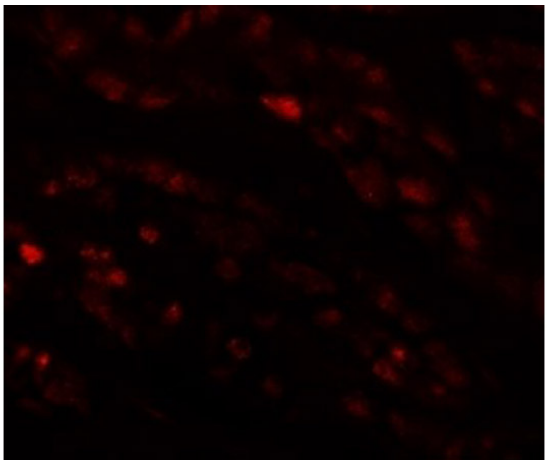
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

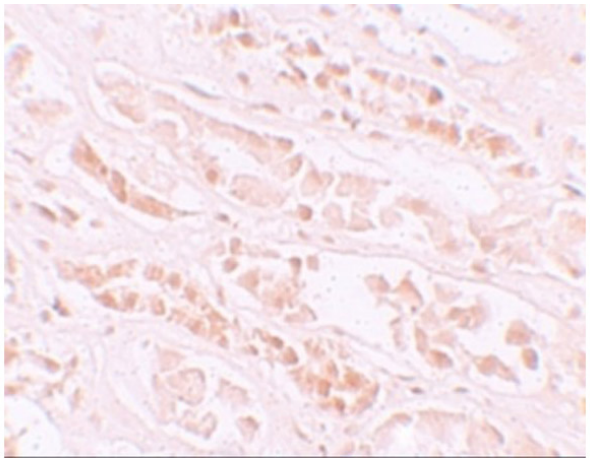
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

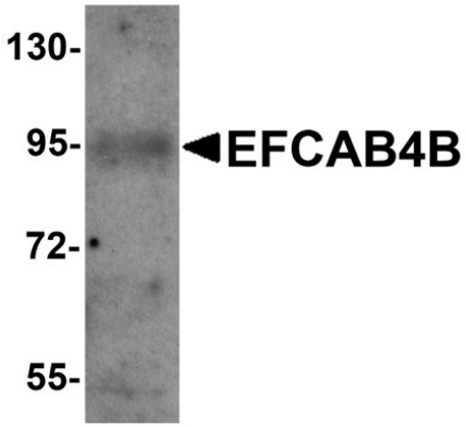
Images



Immunofluorescence Microscopy
Immunofluorescence of EFCAB4B.
Tissue: human kidney tissue.
Primary Antibody: Anti-EFCAB4B antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of EFCAB4B.
Tissue: human kidney tissue.
Primary Antibody: Anti-EFCAB4B antibody at 10 µg/mL.



Western Blot
Western blot analysis of EFCAB4B.
Load: mouse kidney tissue lysate.
Primary Antibody: anti-EFCAB4B antibody at 1 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.