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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

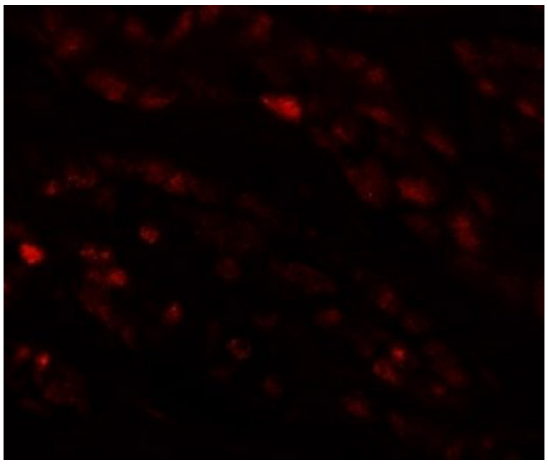
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

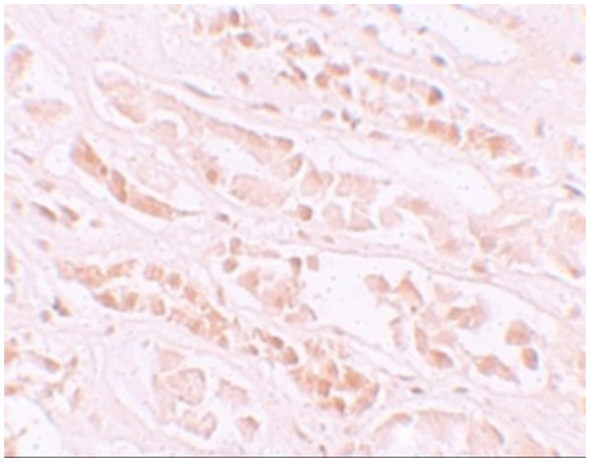
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

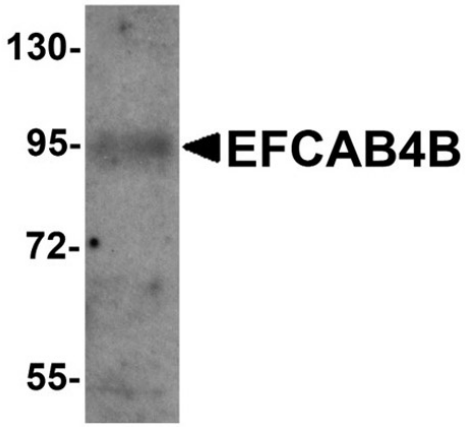
Images



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.

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