

EFCAB4B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17969a

Product Information

Application	WB, E
Primary Accession	Q9BSW2
Other Accession	NP_001138430.1
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38227
Calculated MW	83193
Antigen Region	48-74

Additional Information

Gene ID	84766
Other Names	EF-hand calcium-binding domain-containing protein 4B, Calcium release-activated calcium channel regulator 2A, CRAC channel regulator 2A, Calcium release-activated channel regulator 2A, CRACR2A, EFCAB4B
Target/Specificity	This EFCAB4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-74 amino acids from the N-terminal region of human EFCAB4B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EFCAB4B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CRACR2A (HGNC:28657)
Function	[Isoform 1]: Ca(2+)-binding protein that plays a key role in store-operated

Ca(2+) entry (SOCE) in T-cells by regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca(2+) concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca(2+) resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex.

Cellular Location

[Isoform 1]: Cytoplasm

Tissue Location

[Isoform 1]: Expressed in the Jurkat T-cell line.

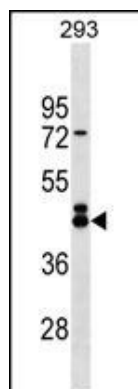
Background

Ca(2+)-binding protein that plays a key role in store-operated Ca(2+) entry (SOCE) in T-cells by regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca(2+) concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca(2+) resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex.

References

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Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Srikanth, S., et al. Nat. Cell Biol. 12(5):436-446(2010)
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Images



EFCAB4B Antibody (N-term) (Cat. #AP17969a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the EFCAB4B antibody detected the EFCAB4B protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.