10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EFCAB4B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17969a

Specification

EFCAB4B Antibody (N-term) - Product Information

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

EFCAB4B Antibody (N-term) - 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

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.

EFCAB4B Antibody (N-term) - Protein Information

Name CRACR2A

Synonyms EFCAB4B, RAB46 {ECO:0000303|PubMed:31092

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

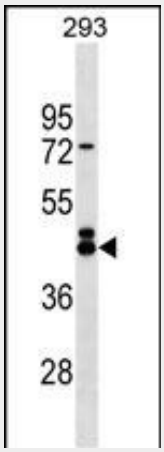
Tissue Location
[Isoform 1]: Expressed in the Jurkat T-cell line.

EFCAB4B Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EFCAB4B Antibody (N-term) - 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).

EFCAB4B Antibody (N-term) - 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.

EFCAB4B Antibody (N-term) - References

Chalasani, N., et al. Gastroenterology 139(5):1567-1576(2010)
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)
Aston, K.I., et al. J. Androl. 30(6):711-725(2009)
Lim, J., et al. Cell 125(4):801-814(2006)