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CRACR2A / EFCAB4B Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS14005

Specification

CRACR2A / EFCAB4B Antibody (C-Terminus) - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q9BSW2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200** **E~~N/A**

CRACR2A / EFCAB4B Antibody (C-Terminus) - 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
Human EFCAB4B

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
CRACR2A / EFCAB4B Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CRACR2A / EFCAB4B Antibody (C-Terminus) - 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

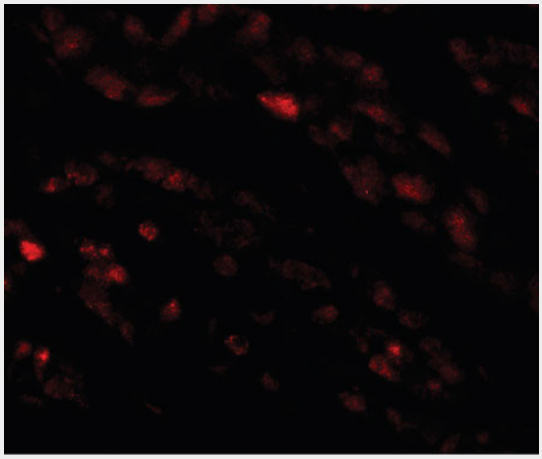
Tissue Location
[Isoform 1]: Expressed in the Jurkat T-cell line.

CRACR2A / EFCAB4B Antibody (C-Terminus) - Protocols

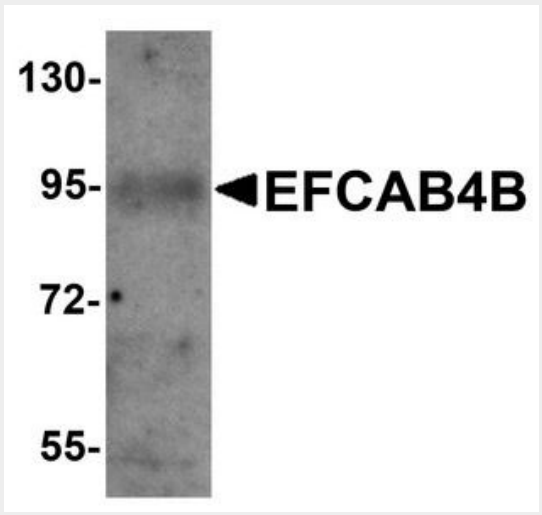
Provided below are standard protocols that you may find useful for product applications.

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

CRACR2A / EFCAB4B Antibody (C-Terminus) - Images



Immunofluorescence of EFCAB4B in human kidney tissue with EFCAB4B antibody at 20 ug/ml.



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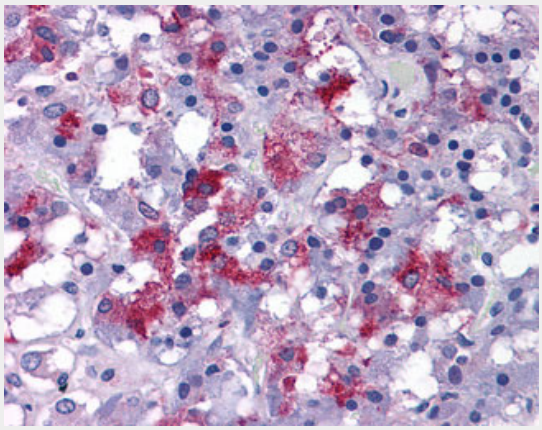
Western blot analysis of EFCAB4B in mouse kidney tissue lysate with EFCAB4B antibody at 1 ug/ml.



Anti-EFCAB4B antibody IHC of human adrenal.

CRACR2A / EFCAB4B Antibody (C-Terminus) - 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.

CRACR2A / EFCAB4B Antibody (C-Terminus) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
Srikanth S.,et al.Nat. Cell Biol. 12:436-446(2010).