

**EFCAB4B Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17969a****Specification**

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**EFCAB4B Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9BSW2](#)**EFCAB4B Antibody (N-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**EFCAB4B Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **EFCAB4B Antibody (N-term) Blocking Peptide - Images**

## **EFCAB4B Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)