

EFCAB4A Antibody

Catalog # ASC11231

Product Information

Application	WB, E
Primary Accession	Q8N4Y2
Other Accession	NP_775855 , 150170653
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	44956
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	EFCAB4A antibody can be used for detection of EFCAB4A by Western blot at 1 - 2 μ g/mL.

Additional Information

Gene ID	283229
Other Names	EF-hand calcium-binding domain-containing protein 4A, Calcium release-activated calcium channel regulator 2B, CRAC channel regulator 2B, Calcium release-activated channel regulator 2B, CRACR2B, EFCAB4A
Target/Specificity	EFCAB4A;
Reconstitution & Storage	EFCAB4A antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	EFCAB4A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CRACR2B
Synonyms	EFCAB4A
Function	Plays a role in store-operated Ca(2+) entry (SOCE).

Background

EFCAB4A Antibody: EFCAB4A, also known as Calcium release-activated calcium channel regulator 2B, 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, but the detailed function is still under investigation. It is likely to play a similar role as the related protein EFCAB4B, which 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.

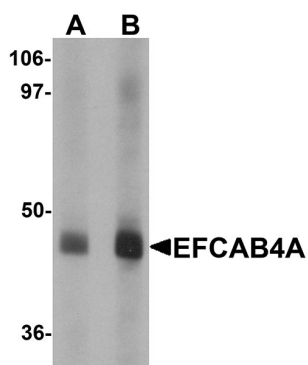
References

Srikanth S, Jung HJ, Kim KD, et al. A novel EF-hand protein, CRACR2A, is a cytosolic Ca²⁺ sensor that stabilizes CRAC channels in T cells. *Nat. Cell. Biol.* 2010; 12:436-46.

Srikanth S, Jung HJ, Ribalet B, et al. The intracellular loop of Orai1 plays a central role in fast inactivation of Ca²⁺ release-activated Ca²⁺ channels. *J. Biol. Chem.* 2010; 285:5066-75.

Maruyama K, Mikawa T, and Ebashi S. Detection of calcium binding proteins by ⁴⁵Ca autoradiography on nitrocellulose membrane after sodium dodecyl sulfate gel electrophoresis. *J. Biochem.* 1984; 95:511-9.

Images



Western blot analysis of EFCAB4A in human lung tissue lysate with EFCAB4A antibody at (A) 1 and (B) 2 µg/mL.

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