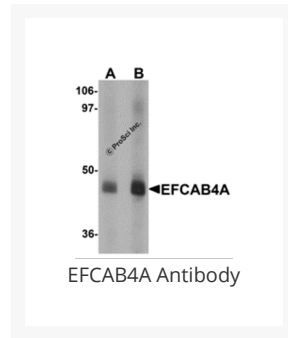




EFCAB4A Antibody

Cat. No.: 6043



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	EFCAB4A antibody was raised against a 15 amino acid synthetic peptide near the center of human EFCAB4A. The immunogen is located within amino acids 290 - 340 of EFCAB4A.
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	EFCAB4A antibody can be used for detection of EFCAB4A by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1302 - Human Lung Tissue Lysate

Ψ Properties

PURIFICATION:	EFCAB4A Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG

CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	EFCAB4A Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	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.

Additional Info

OFFICIAL SYMBOL:	EFCAB4A
ALTERNATE NAMES:	EFCAB4A Antibody: CRACR2B, CRACR2B, EF-hand calcium-binding domain-containing protein 4A, Calcium release-activated calcium channel regulator 2B, CRAC channel regulator 2B
ACCESSION NO.:	NP_775855
PROTEIN GI NO.:	150170653
GENE ID:	283229
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	EFCAB4A Antibody: EFCAB4A, also known as Calcium release-activated calcium channel regulator 2B, is a novel Ca ²⁺ -binding EF-hand protein that is thought to play a key role in store-operated Ca ²⁺ 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 Ca ²⁺ concentration.
REFERENCES:	1) Srikanth S, Jung HJ, Kim KD, et al. A novel EF-hand protein, CRACR2A, is a cytosolic Ca ²⁺ sensor that stabilizes CRAC channels in T cells. <i>Nat. Cell. Biol.</i> 2010; 12:436-46.
	2) Srikanth S, Jung HJ, Ribalet B, et al. The intracellular loop of Orai1 plays a central role in fast inactivation of Ca ²⁺ release-activated Ca ²⁺ channels. <i>J. Biol. Chem.</i> 2010; 285:5066-75.
	3) Maruyama K, Mikawa T, and Ebashi S. Detection of calcium binding proteins by ⁴⁵ Ca autoradiography on nitrocellulose membrane after sodium dodecyl sulfate gel electrophoresis. <i>J. Biochem.</i> 1984; 95:511-9.

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