

Rabbit Anti-EFCAB4B antibody

SL14512R

Product Name:	EFCAB4B
Chinese Name:	EFCAB4B蛋白抗体
Alias:	EFCAB-4B; Calcium release-activated calcium channel regulator 2A; CRAC channel regulator 2A; CRACR2A; EF hand calcium binding domain 4B; EF hand calcium binding domain containing protein 4B; EF-hand calcium-binding domain-containing protein 4B; EFC4B_HUMAN; EFCAB 4B; Efcab4b; FLJ33805; MGC4266.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Horse,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair)
	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46/83kDakDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EFCAB4B:201-300/1503
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	EF-CAB4B is a 395 amino acid protein belonging to the EF-CAB4 family. Localizing to cytoplasm, EF-CAB4B contains two EF-hand domains and exists as two alternatively spliced isoforms. At low Ca2+ concentrations, EF-CAB4B acts as a calcium-sensor, facilitating the clustering of Orai1 and Stim1 at the junctional regions between plasma

membrane and endoplasmic reticulum, leading to regulation of CRAC channel activation. The gene encoding EF-CAB4B maps to human chromosome 12p13.32. Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12 including hypochondrogenesis, achondrogenesis and Kniest dysplasia.

Function:

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.

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Subcellular Location: Cytoplasm.

Similarity: Belongs to the EFCAB4 family. Contains 2 EF-hand domains.

SWISS: Q9BSW2

Gene ID: 74766

Database links:

Entrez Gene: 84766 Human

Entrez Gene: 381812 Mouse

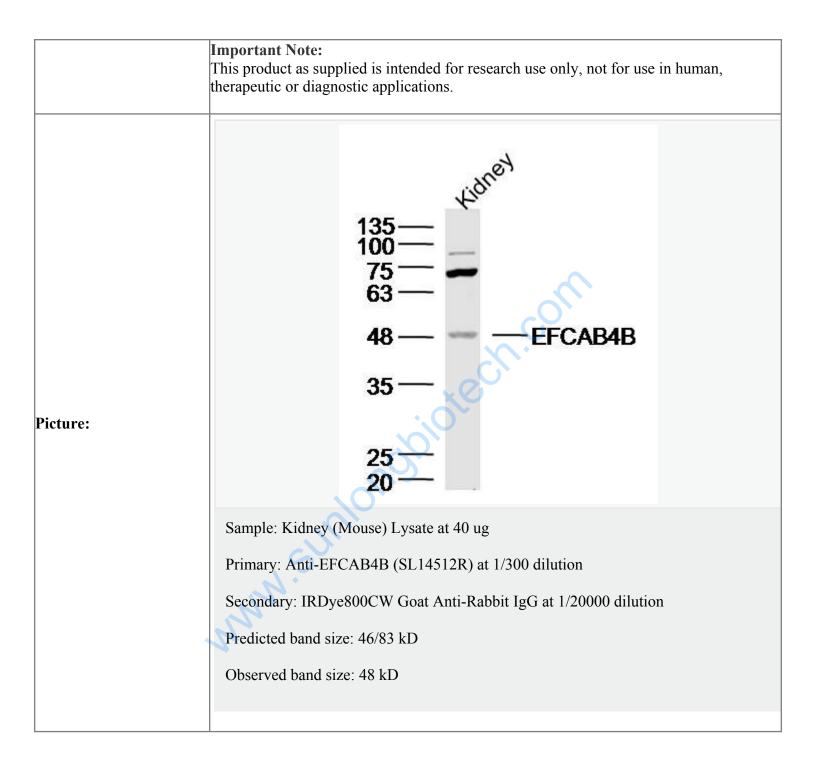
<u>Omim: 614178</u> Human

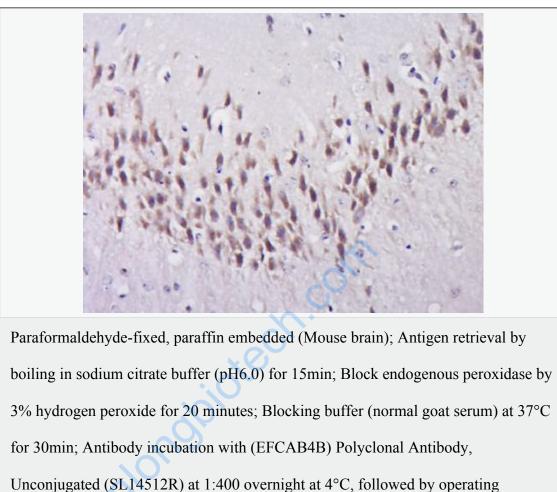
SwissProt: Q9BSW2 Human

SwissProt: Q3UP38 Mouse

Unigene: 504534 Human

Unigene: 296093 Mouse





Cheonjugated (SE14512R) at 1.400 overhight at 4°C, followed by operatin

according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.