



ORAI1 mouse mAb

Catalog No	YP-mAb-18121
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ORAI1 CRACM1 TMEM142A
Immunogen	Synthesized peptide derived from human ORAI1
Specificity	This antibody detects endogenous levels of ORAI1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IMD9;TAM2;ORAT1;CRACM1;TMEM142A;ORAI1;ORAI1 CRACM1 TMEM142A; Calcium release-activated calcium channel protein 1 (Protein orai-1) (Transmembrane protein 142A)
Observed Band	32-55kDa
Calculated Molecular Weight	33kDa
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein . Isoform beta is more mobile in the plasma membrane (PubMed:23307288). Colocalizes with STIM1 at the cell membrane (PubMed:27185316). .
Tissue Specificity	Expressed in naive CD4 and CD8 T cells (at protein level) (PubMed:26956484). Expressed at similar levels in naive and effector T helper cells (PubMed:20354224).
Function	Ca(2+) release-activated Ca(2+) (CRAC) channel subunit which mediates Ca(2+) influx following depletion of intracellular Ca(2+) stores and channel activation by the Ca(2+) sensor, STIM1 . CRAC channels are the main pathway for Ca(2+) influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT . Plays a prominent role in Ca(2+) influx at the basolateral membrane of mammary epithelial cells independently of the Ca(2+)



content of endoplasmic reticulum or Golgi stores. May mediate transepithelial transport of large quantities of Ca^{2+} for milk secretion.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images