



STIM1 mouse mAb

Catalog No	YP-mAb-17250
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	STIM1 GOK
Immunogen	Synthesized peptide derived from human N-terminal STIM1
Specificity	This antibody detects endogenous levels of STIM1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Mouse,Monoclonal
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	GOK;IMD10;STIM 1;stim-1;STRMK;STIM1;STIM1 GOK;Stromal interaction molecule 1
Observed Band	77-90 kDa
Calculated Molecular Weight	685 aa, 77 kDa
Cell Pathway	Cell membrane; Single-pass type I membrane protein . Endoplasmic reticulum membrane; Single-pass type I membrane protein . Cytoplasm, cytoskeleton . Sarcoplasmic reticulum . Translocates from the endoplasmic reticulum to the cell membrane in response to a depletion of intracellular calcium and is detected at punctae corresponding to junctions between the endoplasmic reticulum and the cell membrane (PubMed:19249086, PubMed:16005298, PubMed:16208375, PubMed:18854159). Associated with the microtubule network at the growing distal tip of microtubules (PubMed:19632184). Colocalizes with ORAI1 at the cell membrane (PubMed:27185316). Colocalizes preferentially with CASQ1 at endoplasmic reticulum in response to a depletion of intracellular calcium (PubMed:27185316). .
Tissue Specificity	Ubiquitously expressed in various human primary cells and tumor cell lines.

**Function**

Plays a role in mediating store-operated Ca^{2+} entry (SOCE), a Ca^{2+} influx following depletion of intracellular Ca^{2+} stores . Acts as Ca^{2+} sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca^{2+} depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca^{2+} release-activated Ca^{2+} (CRAC) channel subunit ORAI1 . Involved in enamel formation . Activated following interaction with STIMATE, leading to promote STIM1 conformational switch .

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