



STIM1 mouse mAb

Catalog No	BYmab-17250
Isotype	IgG
Reactivity	Human, Mouse,Rat
Applications	WB
Gene Name	STIM1 GOK
Protein Name	Stromal interaction molecule 1
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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Stromal interaction molecule 1
Observed Band	75kD
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,

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translocates from the endoplasmic reticulum to the plasma membrane where it activates the $\text{Ca}(2+)$ release-activated $\text{Ca}(2+)$ (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