Best Tools for immunology Research

STIM1 rabbit pAb

Catalog No :	YT8094
Reactivity :	Human;Mouse;Rat
Applications :	IHC;WB
Target :	STIM1
Gene Name :	STIM1 GOK
Protein Name :	Stromal interaction molecule 1
Human Gene Id :	6786
Human Swiss Prot No :	Q13586
Mouse Gene Id :	20866
Mouse Swiss Prot No :	P70302
Rat Gene Id :	361618
Rat Swiss Prot No :	P84903
Immunogen :	Synthesized peptide derived from human N-ternal 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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	75kD
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 .
Subcellular Location :	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). .
Expression :	Ubiquitously expressed in various human primary cells and tumor cell lines.

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