

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

Q13586

P70302

Human Gene Id: 6786

Human Swiss Prot

No:

Mouse Gene ld: 20866

Mouse Swiss Prot

No:

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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