

Stromal Interaction Molecule 1 Rabbit pAb

CatalogNo: YT8094

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 75kD (Calculated)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human N-terminal STIM1. AA range:25-105

Specificity

This antibody detects endogenous levels of STIM1 at Human, Mouse, Rat

Target Information

Gene name

STIM1 GOK

Protein Name

Stromal interaction molecule 1

Organism	Gene ID	UniProt ID
Human	6786 ;	Q13586 ;
Mouse	20866 ;	P70302 ;
Rat	361618 ;	P84903 ;

Cellular Localization

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 .

| Validation Data

| Contact information

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Stromal Interaction Molecule 1 Rabbit pAb

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