

STIM2 rabbit pAb

Catalog No :	YT8125
Reactivity :	Human;Mouse
Applications :	IHC;WB
Target :	STIM2
Gene Name :	STIM2 KIAA1482
Protein Name :	Stromal interaction molecule 2
Human Gene Id :	57620
Human Swiss Prot No :	Q9P246
Mouse Gene Id :	116873
Mouse Swiss Prot No :	P83093
Immunogen :	Synthesized peptide derived from human C-terminal STIM2
Specificity :	This antibody detects endogenous levels of STIM2 at Human, Mouse
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 : 82kD

Function : Plays a role in mediating store-operated $\text{Ca}(2+)$ entry (SOCE), a $\text{Ca}(2+)$ influx following depletion of intracellular $\text{Ca}(2+)$ stores. Functions as a highly sensitive $\text{Ca}(2+)$ sensor in the endoplasmic reticulum which activates both store-operated and store-independent $\text{Ca}(2+)$ -influx. Regulates basal cytosolic and endoplasmic reticulum $\text{Ca}(2+)$ concentrations. Upon mild variations of the endoplasmic reticulum $\text{Ca}(2+)$ concentration, translocates from the endoplasmic reticulum to the plasma membrane where it probably activates the $\text{Ca}(2+)$ release-activated $\text{Ca}(2+)$ (CRAC) channels ORAI1, ORAI2 and ORAI3. May inhibit STIM1-mediated $\text{Ca}(2+)$ influx.

Subcellular Location : Endoplasmic reticulum membrane ; Single-pass type I membrane protein . Dynamically translocates from a uniform endoplasmic reticulum distribution to punctual endoplasmic reticulum-plasma membrane junctions in response to decrease in endoplasmic reticulum $\text{Ca}(2+)$ concentration.

Expression : Expressed in all tissues and tumor cell lines examined.

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