



Rabbit Anti-STIM1 monoclonal antibody, clone TE1925 (DCABH-164)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Stromal interaction molecule 1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TE1925
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC, IP
Molecular Weight	100 kDa
Cellular Localization	Cell membrane, Endoplasmic reticulum membrane, Cytoplasm, Sarcoplasmic reticulum.
Positive Control	K562, HepG2, human spleen tissue, mouse testis tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Warnings	For research use only

BACKGROUND

Introduction	Ca ²⁺ influx is essential for a variety of cellular functions including, secretion and transcription. Stromal interaction molecule 1 (Stim1) is a ubiquitously expressed cell surface transmembrane glycoprotein that plays a role in medi-ating Ca ²⁺ influx following the depletion of intracellular Ca ²⁺ stores. Stim1 functions in the endoplasmic reticulum (ER) where it acts as a Ca ²⁺ sensor via its EF-hand domain which causes large conformational changes. When Ca ²⁺ levels drop, Stim1 translocates from the ER to the plasma membrane, where it activates the Ca ²⁺ release-activated Ca ²⁺ (CRAC) channel subunit, TMEM142A/Orai1. Stim2 is a potent inhibitor of Stim1-mediated store-operated calcium (SOC) entry. Stim1 is implicated in tumor growth suppression and stromal-hematopoietic cell interactions.
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Keywords	D11S4896E;GOK;OTTHUMP00000164512;OTTHUMP00000229140;OTTHUMP00000230742;SIM;STIM1;STIM1;Stim1 stromal interaction molecule 1;STIM1_HUMAN;STIM1L;Stromal interaction molecule 1 antibody
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