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Datasheet for ABIN500827 anti-STIM1 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	STIM1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STIM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	STIM1 antibody was raised against a 24 amino acid peptide from near the carboxy terminus of human STIM1.
lsotype:	lgG
Specificity:	This antibody detects STIM1 / GOK. It is predicted to have no cross-reactivity to STIM2.
Purification:	Peptide affinity chromatography

Target Details

Target:	STIM1
Alternative Name:	STIM1 / GOK (STIM1 Products)

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Target Details

Background:	In T lymphocytes, the sole pathway for Ca++ entry following antigen-receptor binding is through store-operated Ca++-release-activated Ca++ (CRAC) channels. These channels are made up of the pore-forming subunit ORAI1 and the stromal interaction molecule 1 (STIM1), a protein that functions as a Ca++ sensor and activates the CRAC channels, migrating to the plasma membrane from endoplasmic reticulum (ER)-like sites which act as the Ca++ store. A related molecule, STIM2, acts to inhibit the STIM1-mediated store-operated Ca++ entry, and can form complexes with STIM1, suggesting they may play a coordinated role in controlling Ca++ entry. At least two isoforms of STIM1 are known to exist, this antibody will detect only the larger form.Synonyms: Stromal interaction molecule 1
Gene ID:	6786
NCBI Accession:	NP_003147
Pathways:	TCR Signaling, BCR Signaling
Application Details	
Application Notes:	ELISA. Western blot: 1 - 2 µg/mL. Immunohisochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Concentration:	1,0 mg/mL
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.
Publications	
Product cited in:	van Dijk, Schilders, Pruijn: "Human cell growth requires a functional cytoplasmic exosome,

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Images





Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of STIM1 in human spleen tissue with this product at $2.5 \,\mu$ g/ml.

Western Blotting

Image 2. Western blot analysis of STIM1 in mouse thymus tissue lysate with this product at (A) 1 and (B) 2 μ g/ml.

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