

Datasheet for ABIN7317559 STIM1 Protein (His tag)



Overview

Quantity:	100 µg
Target:	STIM1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STIM1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human STIM1/GOK Protein (His Tag)
Sequence:	Met 1-Asp 213
Characteristics:	A DNA sequence encoding the human STIM1 (NP_003147.2) extracellular domain (Met 1-Asp 213) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	STIM1
Alternative Name:	STIM1/GOK (STIM1 Products)
Background:	Background: Stromal interaction molecule 1, also known as STIM1 and GOK, is a cell membrane, a single-pass type I membrane protein and a endoplasmic reticulum membrane
	protein. STIM1 / GOK is ubiquitously expressed in various human primary cells and tumor cell

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	lines. It contains one EF-hand domain and one SAM (sterile alpha motif) domain. STIM1 / GOK
	plays a role in mediating Ca2+ influx following depletion of intracellular Ca2+ stores. It acts as
	Ca2+ sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca2+ depletion, STIM1
	/ GOK translocates from the endoplasmic reticulum to the plasma membrane where it
	activates the Ca2+ release-activated Ca2+ (CRAC) channel subunit, TMEM142A / ORAI1.
	Transfection of STIM1 / GOK into cells derived from a rhabdoid tumor and from a
	rhabdomyosarcoma that do not express detectable levels of STIM1 can induce cell death,
	suggesting a possible role in the control of rhabdomyosarcomas and rhabdoid tumors. Defects
	in STIM1 are the cause of immune dysfunction with T-cell inactivation due to calcium entry
	defect type 2 (IDTICED2) which is an immune disorder characterized by recurrent infections,
	impaired T-cell activation and proliferative response, decreased T-cell production of cytokines,
	lymphadenopathy, and normal lymphocytes counts and serum immunoglobulin levels.
	Synonym: D11S4896E;GOK;IMD10;STRMK;TAM;TAM1
Molecular Weight:	23.3 kDa
NCBI Accession:	NP_003147
Pathways:	TCR Signaling, BCR Signaling

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.