

For Research Use Only

STIM1 Monoclonal antibody

Catalog Number: 66189-1-Ig

Featured Product

5 Publications



Basic Information

Catalog Number: 66189-1-Ig	GenBank Accession Number: BC021300	Purification Method: Protein A purification
Size: 150ul, Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6786	CloneNo.: 1D3A3
Source: Mouse	UNIPROT ID: Q13586	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Isotype: IgG2a	Full Name: stromal interaction molecule 1	
Immunogen Catalog Number: AG17914	Calculated MW: 685 aa, 77 kDa	
	Observed MW: 77 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : K-562 cells, Jurkat cells
Cited Applications: WB, IF	IHC : human lung cancer tissue, human ovary tumor tissue
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

STIM1, also named as GOK, is an ER Ca²⁺ sensor. Upon Ca²⁺ store depletion, STIM1 clusters at ER-plasma membrane junctions where it interacts with and gates Ca²⁺-permeable Orai1 ion channels. STIM1 is implicated in tumor growth suppression and stromal-haematopoietic cell interactions. Defects in STIM1 gene can cause immune dysfunction with impaired T-cell activation. STIM1 can inhibit L-type voltage-gated Ca(2+) channels in neurons. Temperature is an important regulator of STIM1 function. The MW of STIM1 is about 80-90 kDa which may be due to the phosphorylation or glycosylation forms.

Notable Publications

Author	Pubmed ID	Journal	Application
Fangfang Xu	33341060	Biomed Pharmacother	WB,IF
Bingbing Zhang	39477060	J Dairy Sci	WB
Qin Tian	38901802	Neurotoxicology	WB,IF

Storage

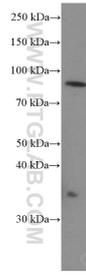
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

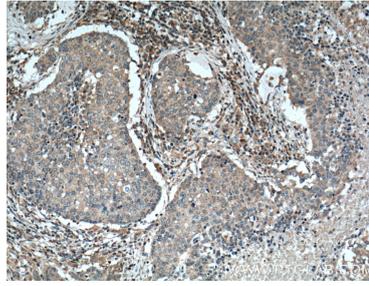
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

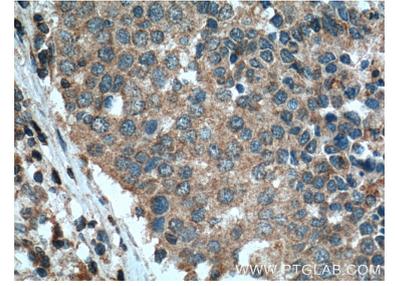
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 66189-1-Ig (STIM1 Antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66189-1-Ig (STIM1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66189-1-Ig (STIM1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).