

For Research Use Only

# STIM1 Monoclonal antibody, PBS Only



Catalog Number: 66189-1-PBS

Featured Product

## Basic Information

Catalog Number:

66189-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG17914

GenBank Accession Number:

BC021300

GeneID (NCBI):

6786

UNIPROT ID:

Q13586

Full Name:

stromal interaction molecule 1

Calculated MW:

685 aa, 77 kDa

Observed MW:

77 kDa

Purification Method:

Protein A purification

CloneNo.:

1D3A3

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

rat, human, mouse

## Background Information

STIM1, also named as GOK, is an ER Ca<sup>2+</sup> sensor. Upon Ca<sup>2+</sup> store depletion, STIM1 clusters at ER-plasma membrane junctions where it interacts with and gates Ca<sup>2+</sup>-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.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

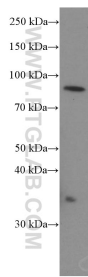
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

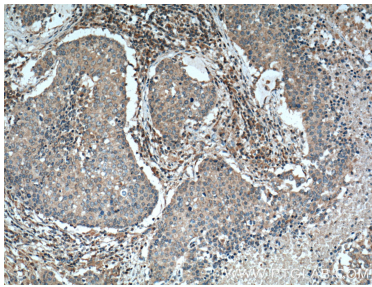
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

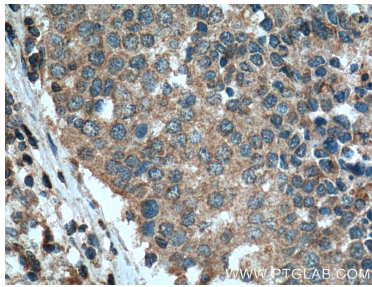
## Selected Validation Data



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. This data was developed using the same antibody clone with 66189-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66189-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66189-1-PBS in a different storage buffer formulation.