

For Research Use Only

# STIM1 Monoclonal antibody

Catalog Number: 66189-1-Ig

Featured Product

5 Publications



## Basic Information

Catalog Number:

66189-1-Ig

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

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

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

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**

Positive Controls:

WB : K-562 cells, Jurkat cells

IHC : human lung cancer tissue, human ovary tumor tissue

## 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.

## 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

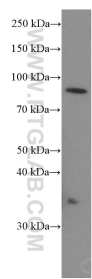
For technical support and original validation data for this product please contact:

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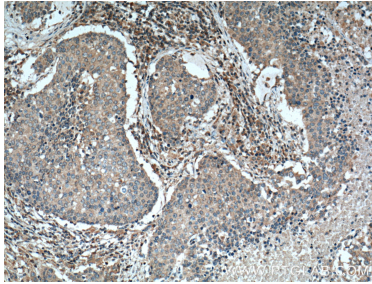
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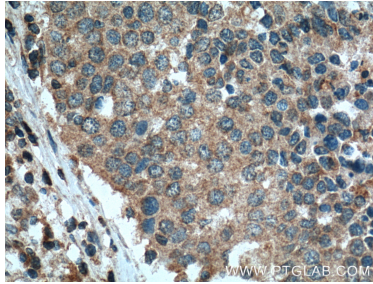
Selected Validation Data



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).