

For Research Use Only

STIM1 Polyclonal antibody

Catalog Number: 11565-1-AP

Featured Product

59 Publications



Basic Information

Catalog Number: 11565-1-AP	GenBank Accession Number: BC021300	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 6786	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:20-1:200
Source: Rabbit	Full Name: stromal interaction molecule 1	
Isotype: IgG	Calculated MW: 685 aa, 77 kDa	
Immunogen Catalog Number: AG2140	Observed MW: 77-90 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls:
Cited Applications: FC, IF, IHC, IP, WB	WB : HeLa cells, HepG2 cells, Jurkat cells, K-562 cells
Species Specificity: human, mouse	IHC : human ovary tumor tissue, human lung cancer tissue
Cited Species: human, rat, mouse	
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. Catalog#11565-1-AP is rabbit polyclonal antibody raised against the N-terminal of human STIM1.

Notable Publications

Author	Pubmed ID	Journal	Application
Yu Chen	34592660	Cell Calcium	WB
Tong Lin	33002827	Phytomedicine	WB
Chunming Gu	36109490	Oncogenesis	WB,IF

Storage

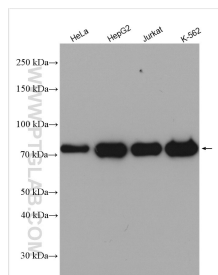
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

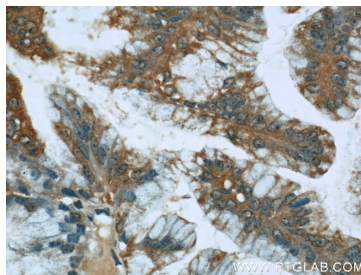
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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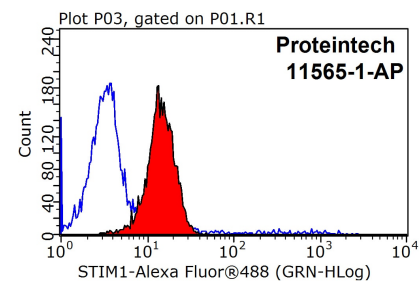
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11565-1-AP (STIM1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 11565-1-AP (STIM1 antibody) at dilution of 1:50 (under 40x lens).



1X10⁶ HepG2 cells were stained with .2ug STIM1 antibody (11565-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.