

For Research Use Only

STIM1 Recombinant antibody

Catalog Number: 81156-1-RR



Basic Information

Catalog Number: 81156-1-RR	GenBank Accession Number: BC021300	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 6786	CloneNo.: 1B13
Source: Rabbit	UNIPROT ID: Q13586	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: stromal interaction molecule 1	IHC 1:50-1:500
Immunogen Catalog Number: AG2140	Calculated MW: 685 aa, 77 kDa	IF/ICC 1:500-1:2000
	Observed MW: 77 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
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 : HeLa cells, NIH/3T3 cells, HepG2 cells, A549 cells, LNCaP cells, Jurkat cells, K-562 cells, Raji cells, RAW 263.7 cells, HSC-T6 cells, C6 cells

IHC : human intrahepatic cholangiocarcinoma tissue,

IF/ICC : HEK-293 cells,

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.

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**

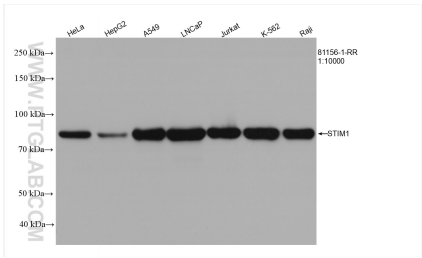
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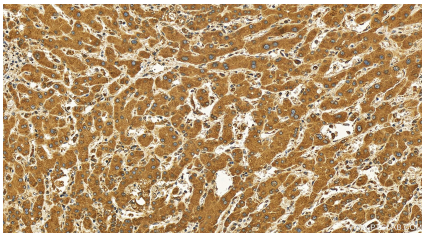
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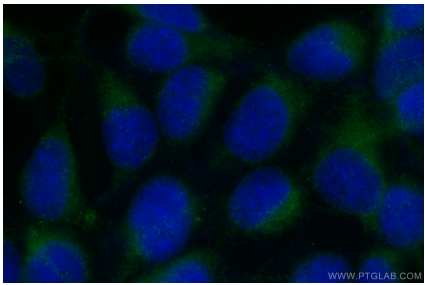
Selected Validation Data



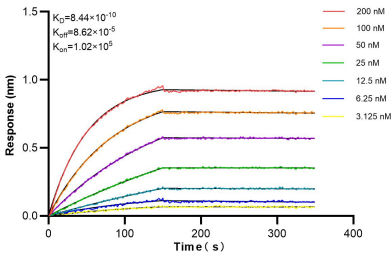
Various lysates were subjected to SDS PAGE followed by western blot with 81156-1-RR (STIM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 81156-1-RR (STIM1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using STIM1 antibody (81156-1-RR, Clone: 1B13) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81156-1-RR against Human STIM1 were performed. The affinity constant is 0.844 nM.