

For Research Use Only

STIM1 Recombinant antibody, PBS Only

Catalog Number: 81156-1-PBS



Basic Information

Catalog Number: 81156-1-PBS	GenBank Accession Number: BC021300	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 6786	CloneNo.: 1B13
Source: Rabbit	UNIPROT ID: Q13586	
Isotype: IgG	Full Name: stromal interaction molecule 1	
Immunogen Catalog Number: AG2140	Calculated MW: 685 aa, 77 kDa	
	Observed MW: 77 kDa	

Applications

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

Species Specificity:
human, mouse, rat

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

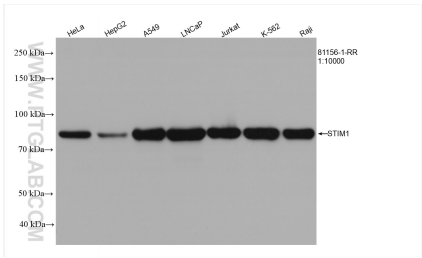
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

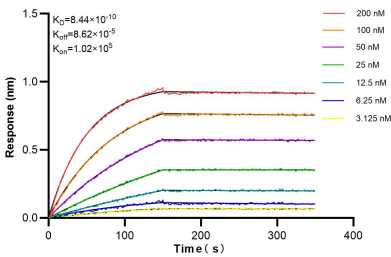
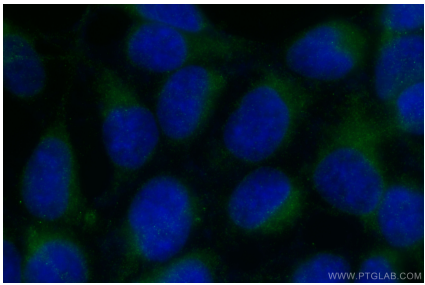
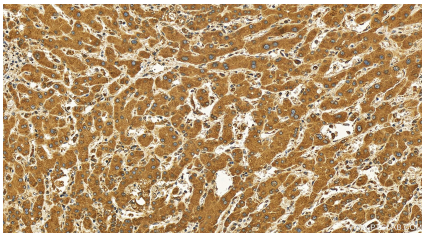
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Selected Validation Data



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. This data was developed using the same antibody clone with 81156-1-PBS in a different storage buffer formulation.



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