

For Research Use Only

# STIM1 Recombinant antibody, PBS Only



Catalog Number: 81156-1-PBS

## Basic Information

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

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human, mouse, rat

## 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.

## Storage

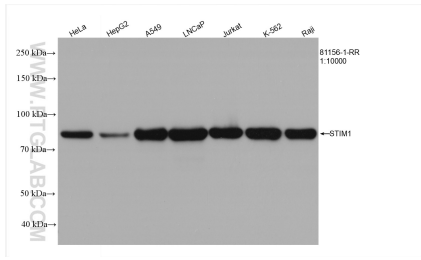
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

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