

For Research Use Only

# SIK1 Recombinant antibody, PBS Only (Capture)

Catalog Number:83897-4-PBS



## Basic Information

<b>Catalog Number:</b> 83897-4-PBS	<b>GenBank Accession Number:</b> BC038504	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 150094	<b>CloneNo.:</b> 240961H3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P57059	
<b>Isotype:</b> IgG	<b>Full Name:</b> salt-inducible kinase 1	
<b>Immunogen Catalog Number:</b> AG28481	<b>Calculated MW:</b> 783 aa, 85 kDa	
	<b>Observed MW:</b> 85 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Background Information

SIK1(Salt-inducible kinase 1) is also named SIK, SNF1LK, and belongs to the CAMK Ser/Thr protein kinase family. It associates constitutively with the NK regulatory complex and is responsible for increases in its catalytic activity following small elevations in intracellular sodium concentrations(PMID:17939993). SIK1 is required for the phosphorylation of class II HDACs and expression of MEF2 target genes in myocytes(PMID:17468767). Defects in SIK1 may be associated with some cancers, such as breast cancer. Loss of SIK1 correlates with poor patient outcomes in breast cancers(PMID:19622832).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

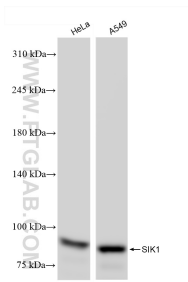
T: 4006900926

E: Proteintech-CN@ptglab.com

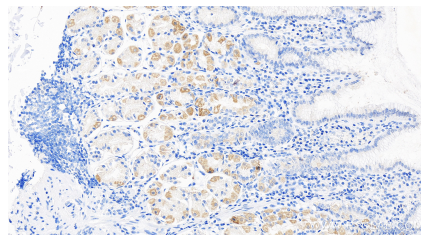
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

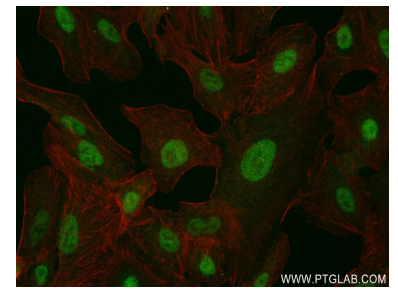
## Selected Validation Data



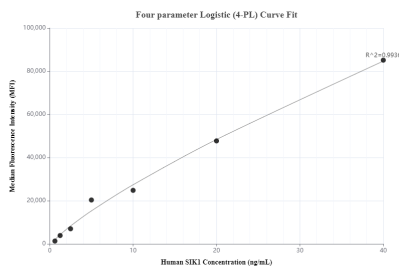
Various lysates were subjected to SDS PAGE followed by western blot with 83897-4-RR (SIK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



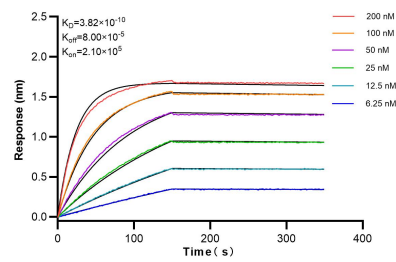
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 83897-4-RR (SIK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using SIK1 antibody (83897-4-RR, Clone: 240961H3 ) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00838-2, SIK1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83897-4-PBS. Detection antibody: 83897-2-PBS. Standard: Ag28481. Range: 0.625-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83897-4-RR against Human SIK1 were performed. The affinity constant is 0.382 nM.