

For Research Use Only

# SIK1 Recombinant antibody

Catalog Number: 83897-4-RR



## Basic Information

<b>Catalog Number:</b> 83897-4-RR	<b>GenBank Accession Number:</b> BC038504	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 150094	<b>CloneNo.:</b> 240961H3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P57059	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:50-1:500
<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, ELISA

**Species Specificity:**  
human

**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, A549 cells  
**IHC :** human stomach tissue,  
**IF/ICC :** A549 cells,

## 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 -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

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

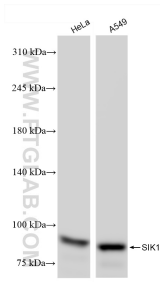
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

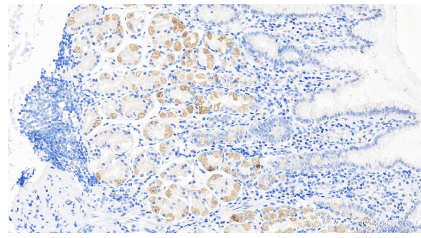
W: [ptgcn.com](http://ptgcn.com)

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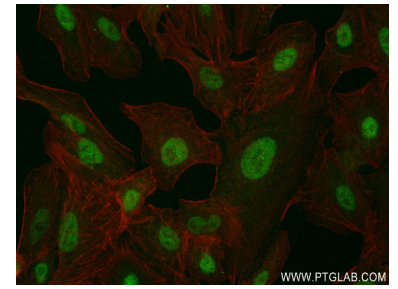
## Selected Validation Data



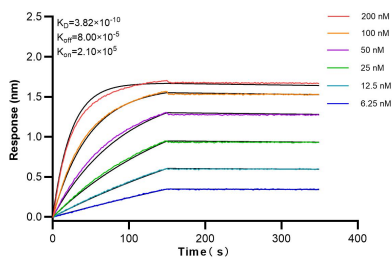
Various lysates were subjected to SDS PAGE followed by western blot with 83897-4-RR (SIK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).



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).



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