

For Research Use Only

# SIK1 Recombinant antibody

Catalog Number: 83897-4-RR



## Basic Information

Catalog Number: 83897-4-RR	GenBank Accession Number: BC038504	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 150094	CloneNo.: 240961H3
Source: Rabbit	UNIPROT ID: P57059	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: salt-inducible kinase 1	
Immunogen Catalog Number: AG28481	Calculated MW: 783 aa, 85 kDa	
	Observed MW: 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

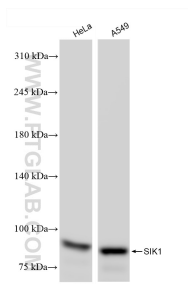
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

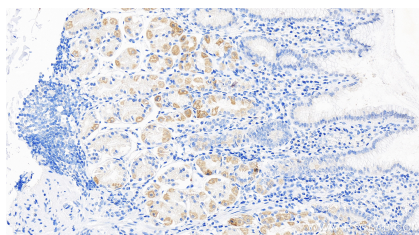
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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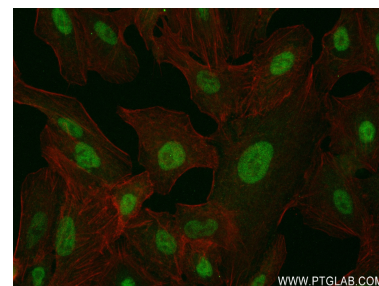
## Selected Validation Data



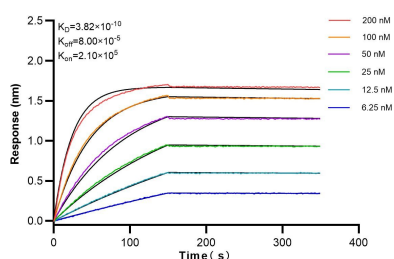
Various lysates were subjected to SDS PAGE followed by western blot with 83897-4-RR (SIK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.