

For Research Use Only

SIK1 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83897-4-PBS

Featured Product



Basic Information

Catalog Number:

83897-4-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG28481

GenBank Accession Number:

BC038504

GeneID (NCBI):

150094

UNIPROT ID:

P57059

Full Name:

salt-inducible kinase 1

Calculated MW:

783 aa, 85 kDa

Observed MW:

85 kDa

Purification Method:

Protein A purification

CloneNo.:

240961H3

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, pH7.3

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

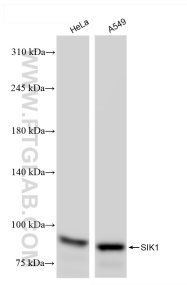
T: 4006900926

E: Proteintech-CN@ptglab.com

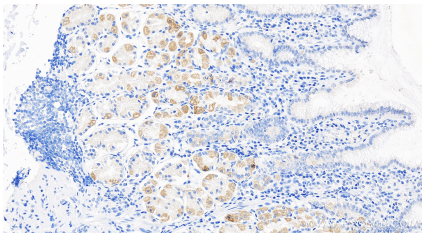
W: ptgcn.com

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

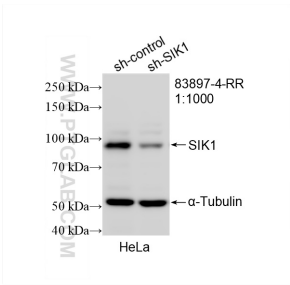
Selected Validation Data



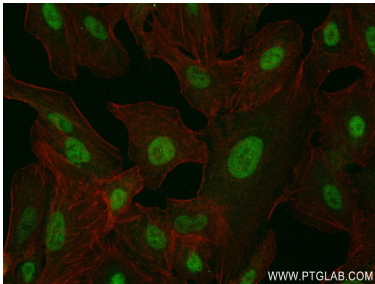
Various lysates were subjected to SDS PAGE followed by western blot with 83897-4-RR (SIK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



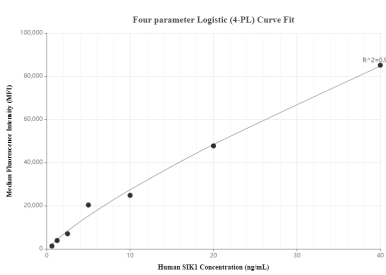
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 83897-4-RR (SIK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83897-4-PBS in a different storage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



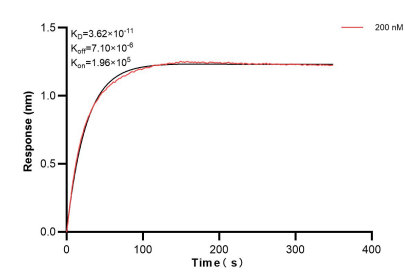
WB result of SIK1 antibody (83897-4-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SIK1 transfected HeLa cells. This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



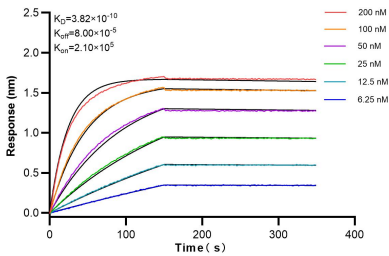
Immunofluorescent analysis of (4% PFA) fixed A549 cells using SIK1 antibody (83897-4-RR, Clone: 240961H3) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83897-4-PBS in 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 assay of 83897-4-PBS against Human SIK1 was performed. The affinity constant is 36.2 pM.



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