

For Research Use Only

SIK1 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83897-4-PBS



Basic Information

Catalog Number: 83897-4-PBS	GenBank Accession Number: BC038504	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 150094	CloneNo.: 240961H3
Source: Rabbit	UNIPROT ID: P57059	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83897-4-PBS targets SIK1 as part of a matched antibody pair:

MP00838-2: 83897-4-PBS capture and 83897-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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).

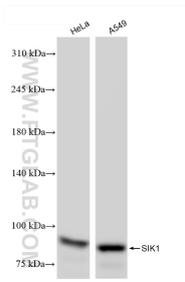
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

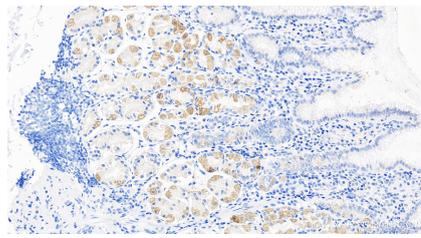
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

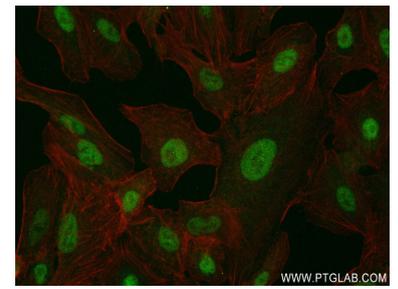
Selected Validation Data



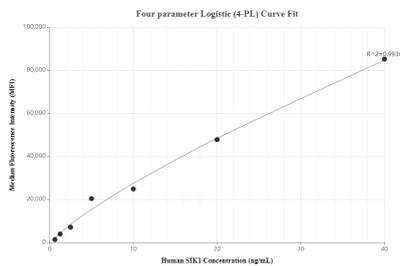
Various lysates were subjected to SDS PAGE followed by western blot with 83897-4-RR (SIK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83897-4-PBS in a different storage buffer formulation.



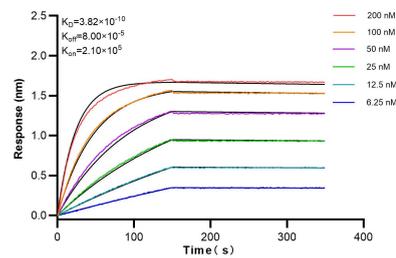
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 83897-4-RR (SIK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83897-4-PBS in a different storage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