

For Research Use Only

SIK1 Polyclonal antibody

Catalog Number: 51045-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number: 51045-1-AP	GenBank Accession Number: BC038504	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 150094	Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: salt-inducible kinase 1	
Isotype: IgG	Calculated MW: 783 aa, 85 kDa	
Immunogen Catalog Number: AG3913	Observed MW: 85-100 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : A549 cells, IHC : mouse brain tissue, human liver tissue, human lung cancer tissue IF : MCF-7 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse, Rat	
Cited Species: human, rat, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

SIK1 (Salt-inducible kinase 1) is also named as 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 phosphorylation of class II HDACs and for expression of MEF2 target genes in myocytes (PMID:17468767). Defects in SIK1 may be associated with some cancers, such as breast cancers. Loss of SIK1 correlates with poor patient outcome in breast cancers (PMID:19622832). SIK1 also can be detected 95-100 kDa (PMID: 26567857, PMID: 22109884).

Notable Publications

Author	Pubmed ID	Journal	Application
Chang Wang	33013689	Front Endocrinol (Lausanne)	WB,IF
Jiangqin Pu	36276742	Heliyon	WB,IF
Maria Stella Lombardi	26590148	J Leukoc Biol	WB

Storage

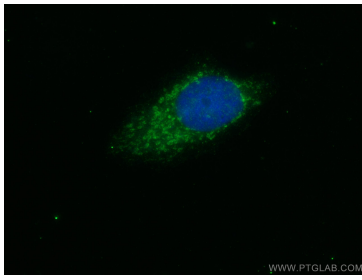
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

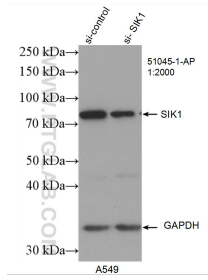
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

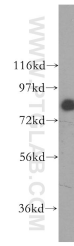
Selected Validation Data



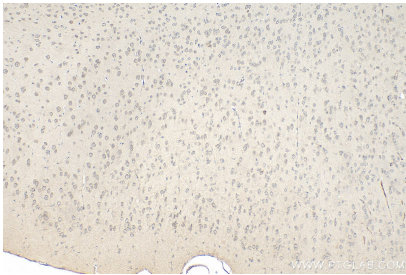
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using SIK1 antibody (51045-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of SIK1 antibody (51045-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SIK1 transfected A549 cells.



A549 cells were subjected to SDS PAGE followed by western blot with 51045-1-AP (SIK1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 51045-1-AP (SIK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).