

For Research Use Only

Snf1lk Polyclonal antibody

Catalog Number: 51045-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

51045-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3913

GenBank Accession Number:

NM_010831

GeneID (NCBI):

17691

UNIPROT ID:

P57059

Full Name:

salt inducible kinase 1

Calculated MW:

85 kDa

Observed MW:

85-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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 : A549 cells,

IHC : mouse brain tissue, human liver tissue, human lung cancer tissue

IF/ICC : MCF-7 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 the 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). 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

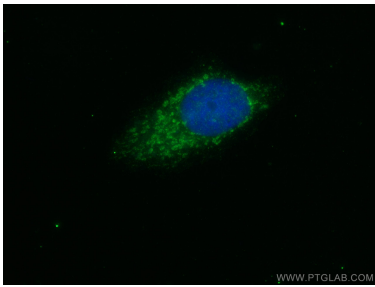
For technical support and original validation data for this product please contact:

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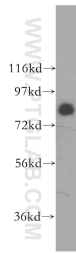
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W: ptglab.com

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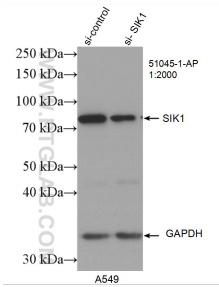
Selected Validation Data



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).



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.



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.



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).