

For Research Use Only

PLEK Monoclonal antibody

Catalog Number: 66431-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

66431-1-Ig

GenBank Accession Number:

BC018549

Purification Method:

Protein G purification

Size:

150ul, Concentration: 1600 ug/ml by 5341
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

GeneID (NCBI):

5341

CloneNo.:

1D5C2

Source:

Mouse

UNIPROT ID:

P08567

Recommended Dilutions:

WB 1:2000-1:20000

IHC 1:50-1:500

IF-P 1:200-1:800

Isotype:

IgG1

Full Name:

pleckstrin

Calculated MW:

350 aa, 40 kDa

Immunogen Catalog Number:

AG3187

Observed MW:

40-47 kDa

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Positive Controls:

WB: HL-60 cells, pig spleen tissue, THP-1 cells, U-937 cells

Cited Applications:

IF, IHC

IHC: human colon cancer tissue,

Species Specificity:

human, pig, mouse

IF-P: mouse spleen tissue,

Cited Species:

human

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

PLEK (pleckstrin; also known as p47) was originally identified as the major PKC substrate in platelets and later is found to be expressed in all cells of the hemopoietic system. Through two pleckstrin homology (PH) domains at its N and C termini, PLEK may interact with various protein and/or lipid ligands and serve as an intracellular adaptor/targeting protein. Predominantly cytosolic in unstimulated cells, PLEK would undergo transient redistribution to phagosomal membrane in response to stimuli. PLEK has been found to be hyperphosphorylated in diabetic mononuclear phagocytes and promote proinflammatory cytokine secretion in diabetes. (10477609, 17579087)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------|-----------|-------------------|-------------|
| Zhen Li | 38382092 | Aging (Albany NY) | IHC,IF |

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

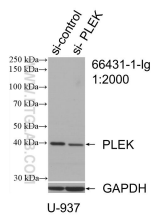
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

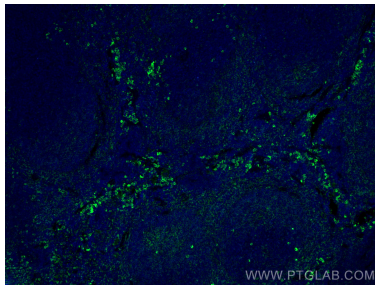
E: proteintech@ptglab.com
W: ptglab.com

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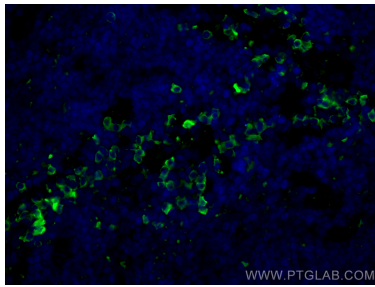
Selected Validation Data



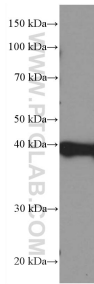
WB result of PLEK antibody (66431-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PLEK transfected U-937 cells.



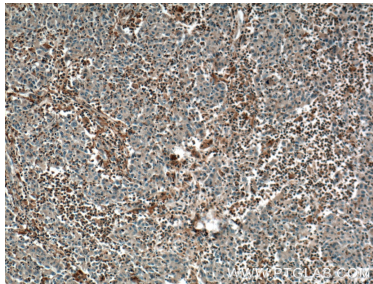
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using PLEK antibody (66431-1-Ig, Clone: 1D5C2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



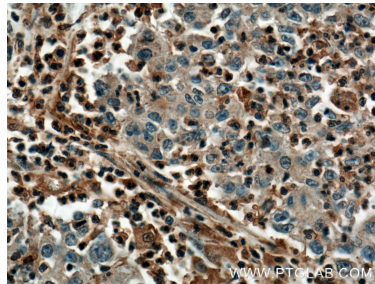
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using PLEK antibody (66431-1-Ig, Clone: 1D5C2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



HL-60 cells were subjected to SDS PAGE followed by western blot with 66431-1-Ig (PLEK Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66431-1-Ig (PLEK Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66431-1-Ig (PLEK Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).