

PLEK Monoclonal antibody

Catalog Number: 66431-1-Ig

Featured Product

1 Publications

Basic Information

Catalog Number:

66431-1-Ig

Size:

1600 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG3187

GenBank Accession Number:

BC018549

GeneID (NCBI):

5341

UNIPROT ID:

P08567

Full Name:

pleckstrin

Calculated MW:

350 aa, 40 kDa

Observed MW:

40-47 kDa

Purification Method:

Protein G purification

CloneNo.:

1D5C2

Recommended Dilutions:

WB 1:2000-1:20000

IHC 1:50-1:500

IF-P 1:200-1:800

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Cited Applications:

IF, IHC

Species Specificity:

human, pig, mouse

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

Positive Controls:

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

IHC : human colon cancer tissue,

IF-P : mouse spleen tissue,

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

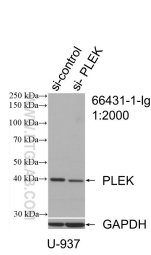
For technical support and original validation data for this product please contact:

T: 4006900926

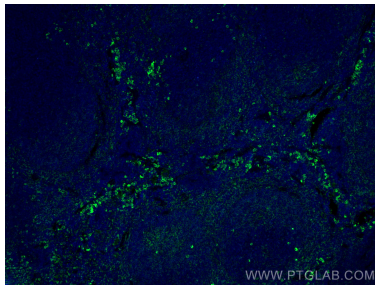
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

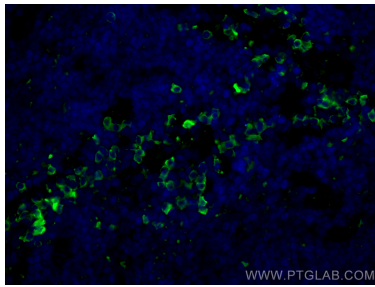
Selected Validation Data



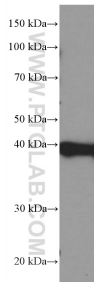
WB result of PLEK antibody (66431-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PLEK transfected U-937 cells.



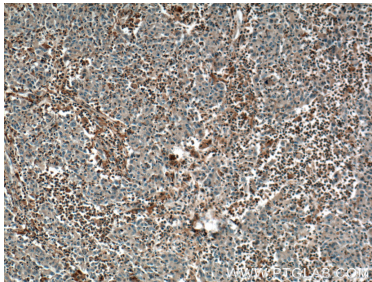
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using PLEK antibody (66431-1-Ig, Clone: 1D5C2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



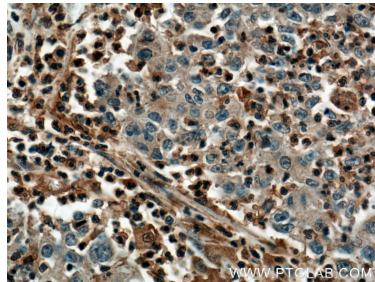
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using PLEK antibody (66431-1-Ig, Clone: 1D5C2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).