For Research Use Only

DAPK1 Monoclonal antibody

Catalog Number:67815-1-Ig 3 Publications

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Basic Information

Catalog Number:
67815-1-Ig

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

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG29838

GenBank Accession Number:
BC113660

GeneID (NCBI):
1612

UNIPROT ID:
P53355

Full Name:
death-associated protein kinase 1

Calculated MW:
1430 aa, 160 kDa

Observed MW:
160 kDa

Purification Method:
Protein G purification

CloneNo.:
1E2F9

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:200-1:800
IF-P 1:200-1:800
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
mouse

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 : LNCaP cells, A549 cells, HeLa cells, HepG2 cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

IHC : human breast cancer tissue, human placenta tissue, human stomach cancer tissue, mouse skin tissue, mouse small intestine tissue, rat small intestine tissue

IF-P : human breast cancer tissue,

IF/ICC : HCT 116 cells, HT-1376 cells

Background Information

DAPK1(Death-associated protein kinase 1) is a stress-activated tumor suppressor protein that plays a role in both proapoptotic or antiapoptotic signal transduction pathways. Loss of DAPK1 expression is associated with a selective advantage fortumor cells to resist apoptotic stimuli, allowing them to separate from the original tumor; from this point of view, DAPK1 could be considered a tumor metastases inhibitor gene(PMID:17319784).

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Geng	39479447	Theranostics	WB
Yunying Yang	39174646	Cell Death Differ	WB
Xiang-Xin Chen	37480108	Cell Commun Signal	IF

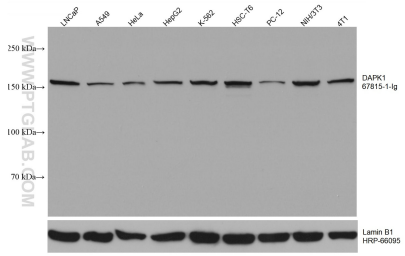
Storage

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

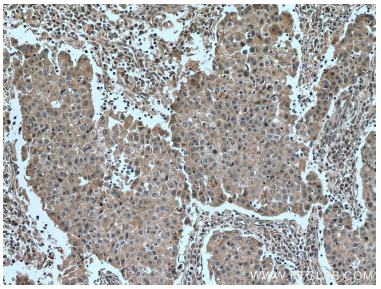
***** 20ul sizes contain 0.1% BSA**

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

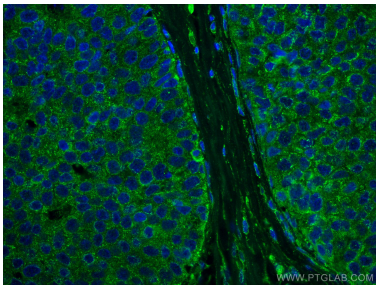
Selected Validation Data



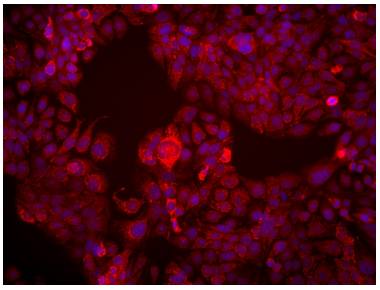
Various lysates were subjected to SDS PAGE followed by western blot with 67815-1-Ig (DAPK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



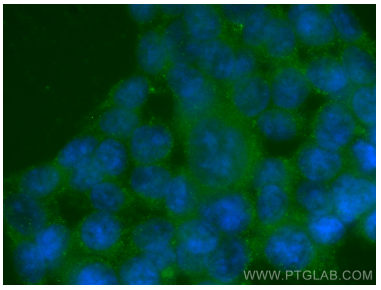
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67815-1-Ig (DAPK1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



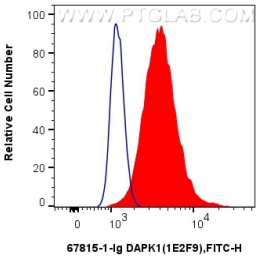
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using DAPK1 antibody (67815-1-Ig, Clone: 1E2F9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HT-1376 cells using DAPK1 antibody (67815-1-Ig, Clone: 1E2F9) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Immunofluorescent analysis of (-20°C Ethanol) fixed HCT 116 cells using DAPK1 antibody (67815-1-Ig, Clone: 1E2F9) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



1X10^6 HCT 116 cells were intracellularly stained with 0.4 ug Anti-Human DAPK1 (67815-1-Ig, Clone:1E2F9) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).