

For Research Use Only

# DAPK1 Monoclonal antibody

Catalog Number: 67815-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67815-1-Ig	<b>GenBank Accession Number:</b> BC113660	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1612	<b>CloneNo.:</b> 1E2F9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P53355	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:200-1:800 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> death-associated protein kinase 1	
<b>Immunogen Catalog Number:</b> AG29838	<b>Calculated MW:</b> 1430 aa, 160 kDa	
	<b>Observed MW:</b> 160 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, FC, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> LNCaP cells, A549 cells, HeLa cells, HepG2 cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells
<b>Species Specificity:</b> Human, Mouse, Rat	<b>IHC :</b> human breast cancer tissue, human placenta tissue, human stomach cancer tissue, mouse skin tissue, mouse small intestine tissue, rat small intestine tissue
<b>Cited Species:</b> mouse	<b>IF :</b> human breast cancer tissue, HCT 116 cells
<b>Note-IHC:</b> <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	

## 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 for tumor 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
Xiang-Xin Chen	37480108	Cell Commun Signal	IF

## Storage

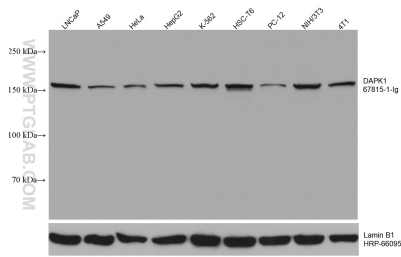
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

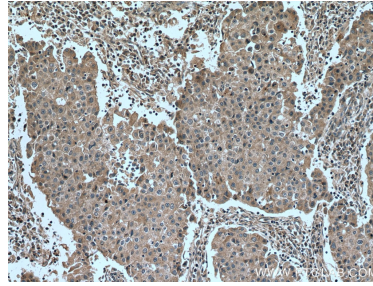
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

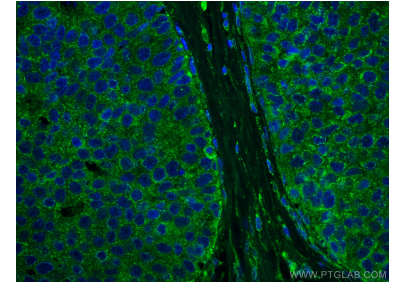
## Selected Validation Data



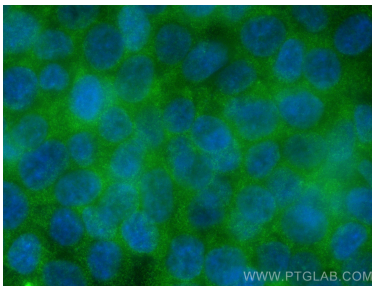
Various lysates were subjected to SDS PAGE followed by western blot with 67815-1-Ig (DAPK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



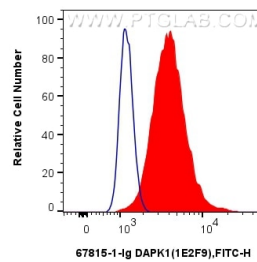
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67815-1-Ig (DAPK1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HCT 116 cells using DAPK1 antibody (67815-1-Ig, Clone: 1E2F9) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HCT 116 cells were intracellularly stained with 0.4 ug Anti-Human DAPK1 (67815-1-Ig, Clone:1E2F9) and CoraLite@488-Conjugated AffiniPure 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).