

For Research Use Only

# Phospho-ZIPK (Ser311) Polyclonal antibody



Catalog Number: 51021-1-AP

1 Publications

## Basic Information

<b>Catalog Number:</b> 51021-1-AP	<b>GenBank Accession Number:</b> BC126430	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 700 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1613	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> death-associated protein kinase 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 52.5 kDa	
	<b>Observed MW:</b> 52.5 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, IP : HEK-293 cells, IHC : human breast cancer tissue,
<b>Cited Applications:</b> IF, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DAPK3(Death-associated protein kinase 3) is also named ZIPK(Zipper-interacting protein kinase), and Dlk (DAP-like kinase). It is a member of the death-associated protein kinase family associated with apoptosis in nonmuscle cells where it phosphorylates myosin regulatory light chain (RLC) to promote membrane blebbing. DAPK3 mRNA and protein are abundant in heart tissue and isolated ventricular neonatal rat cardiac myocytes(PMID:20038585). It has 2 isoforms produced by alternative splicing, named as ZIPK-L and ZIPK-S. This antibody is specific to ZIPK-Phospho 311Ser.

## Notable Publications

Author	Pubmed ID	Journal	Application
Weitzel Douglas H DH	20854903	Cell Signal	WB,IF

## Storage

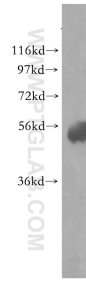
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

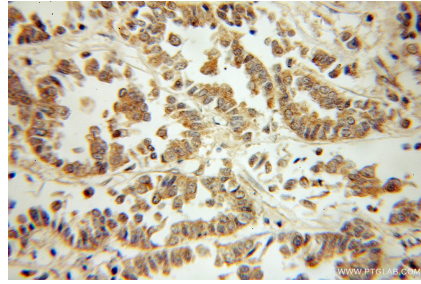
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

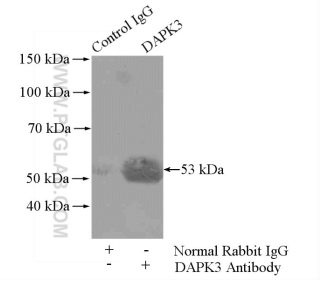
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 51021-1-AP (ZIPK-Phospho 311Ser antibody) at dilution of 1:0 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 51021-1-AP (Phospho-ZIPK (Ser311) antibody) at dilution of 1:50 (under 10x lens).



IP Result of anti-ZIPK-Phospho 311Ser (IP:51021-1-AP, 4 $\mu$ g; Detection:51021-1-AP 1:300) with HEK-293 cells lysate 3200 $\mu$ g.