

For Research Use Only

# TAOK3 Monoclonal antibody

Catalog Number: 67451-1-Ig

Featured Product

1 Publications



## Basic Information

Catalog Number:

67451-1-Ig

GenBank Accession Number:

BC002756

Purification Method:

Protein A purification

Size:

150ul, Concentration: 1800 ug/ml by 51347  
Nanodrop and 1000 ug/ml by Bradford  
method using BSA as the standard;

GeneID (NCBI):

51347

CloneNo.:

1A5A9

Source:

Mouse

UNIPROT ID:

Q9H2K8

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF-P 1:200-1:800

Isotype:

IgG1

Full Name:

TAO kinase 3

Calculated MW:

105 kDa

Immunogen Catalog Number:

AG29146

Observed MW:

100-105 kDa

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, CoIP

Species Specificity:

Human, 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 : HEK-293 cells, HeLa cells, HepG2 cells, Jurkat  
cells, A549 cells, LNCaP cells, K-562 cells

IHC : human prostate cancer tissue, mouse kidney  
tissue

IF-P : human prostate cancer tissue,

## Background Information

TAOK3(Serine/threonine-protein kinase TAO3) is also named as DPK, JIK, KDS, MAP3K18 and belongs to the STE Ser/Thr protein kinase family. It acts as an activator of the p38/MAPK14 stress-activated MAPK cascade. In response to DNA damage, it is involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. And this protein can be autophosphorylated(PMID:20949042).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mingchuan Sun	37705061	Adv Sci (Weinh)	WB,IHC,CoIP

## 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

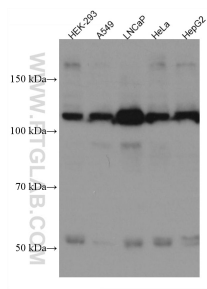
For technical support and original validation data for this product please contact:

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

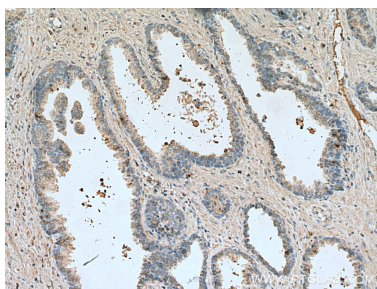
E: proteintech@ptglab.com  
W: ptglab.com

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

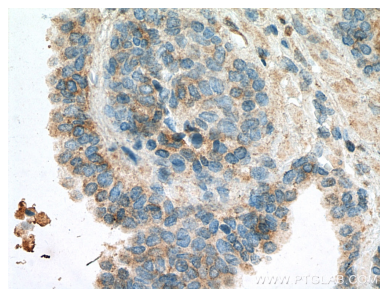
Selected Validation Data



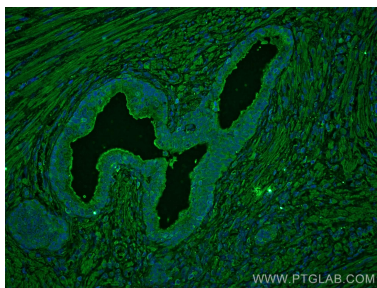
Various lysates were subjected to SDS PAGE followed by western blot with 67451-1-Ig (TAOK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



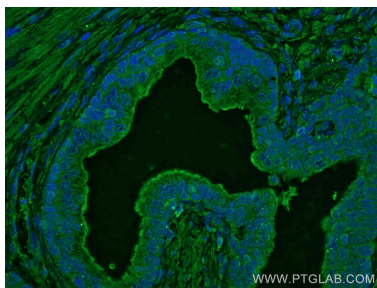
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67451-1-Ig (TAOK3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



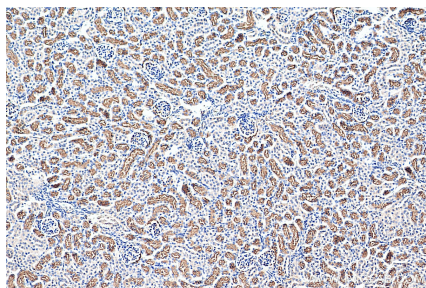
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67451-1-Ig (TAOK3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using TAOK3 antibody (67451-1-Ig, Clone: 1A5A9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using TAOK3 antibody (67451-1-Ig, Clone: 1A5A9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 67451-1-Ig (TAOK3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).