

For Research Use Only

TAOK3 Monoclonal antibody

Catalog Number: 67451-1-Ig **1 Publications**



Basic Information

Catalog Number: 67451-1-Ig	GenBank Accession Number: BC002756	Purification Method: Protein G purification
Size: 1800 µg/ml	GeneID (NCBI): 51347	CloneNo.: 1A5A9
Source: Mouse	UNIPROT ID: Q9H2K8	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800
Isotype: IgG1	Full Name: TAO kinase 3	
Immunogen Catalog Number: AG29146	Calculated MW: 105 kDa	
	Observed MW: 100-105 kDa	

Applications

Tested Applications:
IF-P, IHC, WB, ELISA

Cited Applications:
CoIP, IHC, WB

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: 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

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

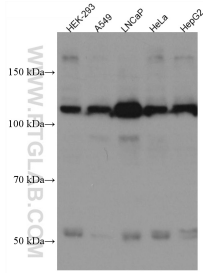
T: 4006900926

E: Proteintech-CN@ptglab.com

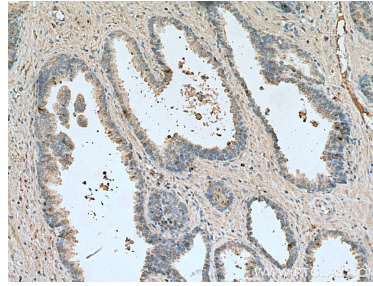
W: ptgcn.com

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

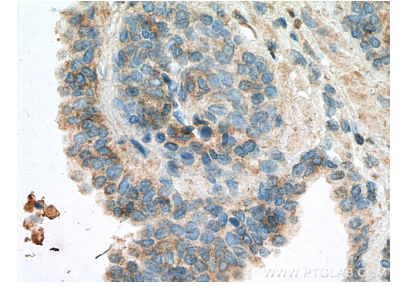
Selected Validation Data



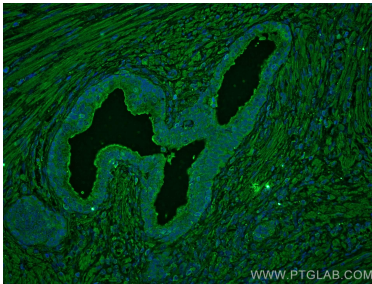
Various lysates were subjected to SDS PAGE followed by western blot with 67451-1-Ig (TAOK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



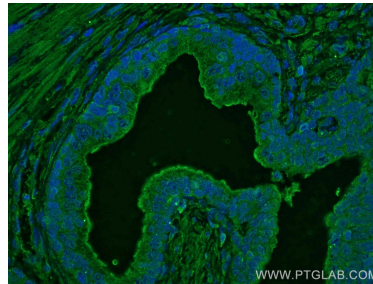
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67451-1-Ig (TAOK3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



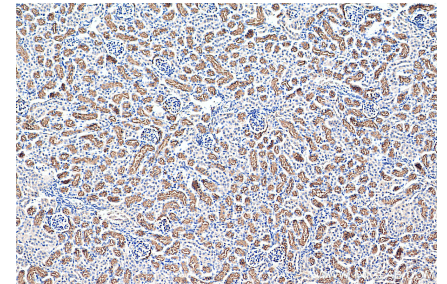
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67451-1-Ig (TAOK3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure 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 AffiniPure 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).