

For Research Use Only

USP4 Monoclonal antibody

Catalog Number: 66822-1-Ig **5 Publications**



Basic Information

Catalog Number: 66822-1-Ig	GenBank Accession Number: BC125131	Purification Method: Protein A purification
Size: 150ul, Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7375	CloneNo.: 1G11G8
Source: Mouse	UNIPROT ID: Q13107	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:100-1:300 IF 1:50-1:500
Isotype: IgG2b	Full Name: ubiquitin specific peptidase 4 (proto-oncogene)	
Immunogen Catalog Number: AG28297	Calculated MW: 963 aa, 109 kDa	
	Observed MW: 109 kDa	

Applications

Tested Applications:
WB, IF, FC, IHC, ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
Human, Mouse

Cited Species:
human, 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: HeLa cells, Jurkat cells, HEK-293 cells, THP-1 cells, NCI-H1299 cells, RAW 264.7 cells

IHC: human breast cancer tissue,

IF: human breast cancer tissue, human liver cancer tissue

Background Information

USP4, also named as UNP and UNPH, belongs to the peptidase C19 family and USP4 subfamily. USP4 is a deubiquitinating enzyme that links to mitogen-activated protein kinase signaling, pre-mRNA splicing, and control of p53 stability (PMID: 26455393). USP4 has 3 isoforms with the molecular mass of 36, 104 and 109 kDa. Recently, it has been reported that USP4 is a critical factor in promoting lung cancer stemness and potentially useful lung cancer prognosis marker (PMID: 32549341).

Notable Publications

Author	Pubmed ID	Journal	Application
Tegan S Horan	38377115	PLoS Genet	WB
Yanguan Guo	38043062	Cell Rep	WB
Hongdian Zhang	37949874	Cell Death Dis	IHC

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

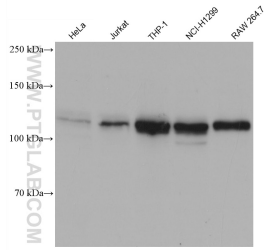
For technical support and original validation data for this product please contact:

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

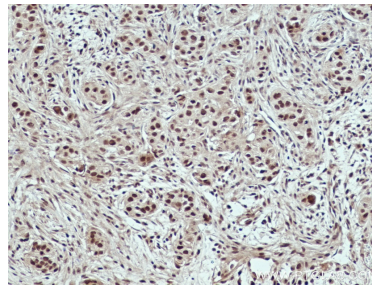
E: proteintech@ptglab.com
W: ptglab.com

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

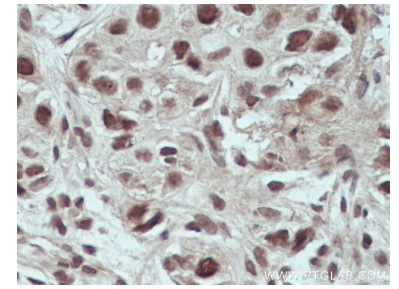
Selected Validation Data



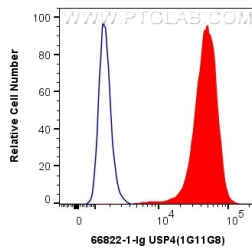
Various lysates were subjected to SDS PAGE followed by western blot with 66822-1-Ig (USP4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



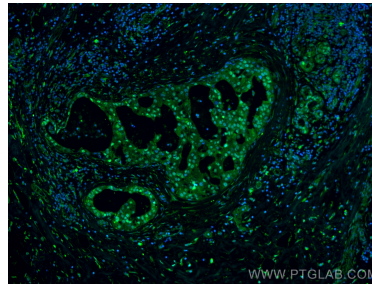
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66822-1-Ig (USP4 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66822-1-Ig (USP4 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 THP-1 cells were intracellularly stained with 0.4 ug Anti-Human USP4 (66822-1-Ig, Clone:1G11G8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using USP4 antibody (66822-1-Ig, Clone: 1G11G8) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).