

For Research Use Only

USP4 Monoclonal antibody

Catalog Number: 66822-1-Ig **7 Publications**



Basic Information

Catalog Number: 66822-1-Ig	GenBank Accession Number: BC125131	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/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-P 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, IHC, IF-P, FC (Intra), ELISA	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, mouse kidney tissue IF-P : human breast cancer tissue, human liver cancer tissue
Cited Applications: WB, IHC, IP, IF	
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	

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
Xueyuan Guo	38734703	NPJ Breast Cancer	WB,IHC
Tegan S Horan	38377115	PLoS Genet	WB
Meng Mao	38176274	Phytomedicine	WB

Storage

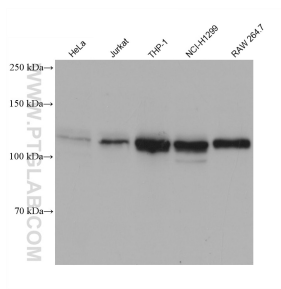
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

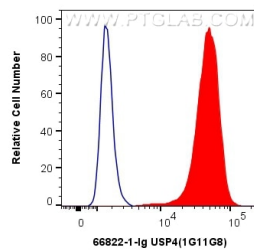
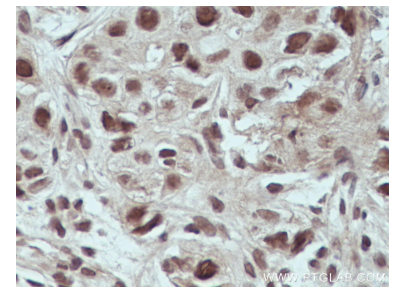
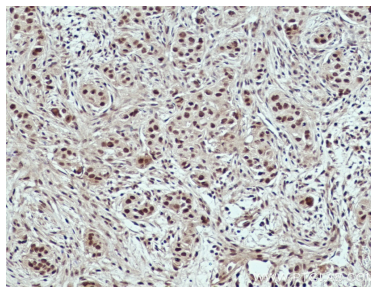
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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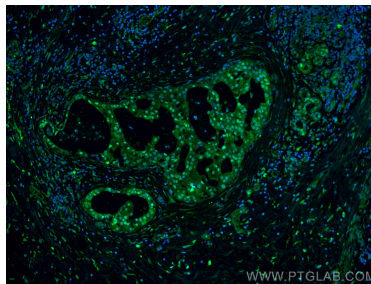
Selected Validation Data



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.



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).