

USP4 Monoclonal antibody

Catalog Number: 66822-1-Ig 4 Publications

Basic Information

Catalog Number: 66822-1-Ig	GenBank Accession Number: BC125131	Purification Method: Protein A purification
Size: 1500 µg/ml	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: FC, IF-P, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, IP, WB	WB : HeLa cells, Jurkat cells, HEK-293 cells, THP-1 cells, NCI-H1299 cells, RAW 264.7 cells
Species Specificity: Human, Mouse	IHC : human breast cancer tissue,
Cited Species: human, mouse	IF : human breast cancer tissue, human liver cancer tissue
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).

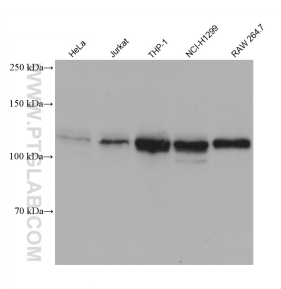
Notable Publications

Author	Pubmed ID	Journal	Application
Tegan S Horan	38377115	PLoS Genet	WB
Hongdian Zhang	37949874	Cell Death Dis	IHC
Tegan S Horan	37873301	bioRxiv	WB

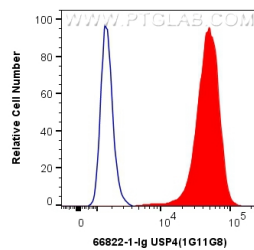
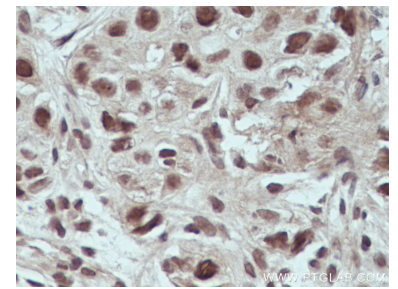
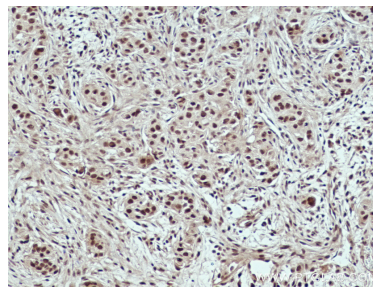
Storage

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

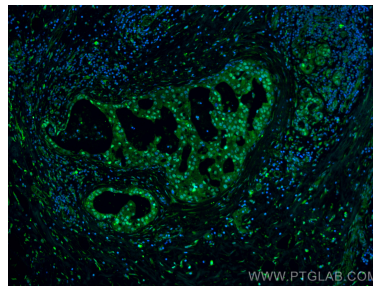
Selected Validation Data



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).