

For Research Use Only

# USP4 Polyclonal antibody

Catalog Number: 24976-1-AP



## Basic Information

<b>Catalog Number:</b> 24976-1-AP	<b>GenBank Accession Number:</b> BC125131	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7375	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13107	
<b>Isotype:</b> IgG	<b>Full Name:</b> ubiquitin specific peptidase 4 (proto-oncogene)	
<b>Immunogen Catalog Number:</b> AG21684	<b>Calculated MW:</b> 963 aa, 109 kDa	
	<b>Observed MW:</b> 109 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> THP-1 cells, <b>IHC :</b> human ovary cancer tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

USP4, also known 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).

## Storage

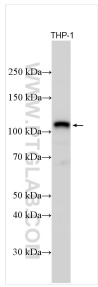
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

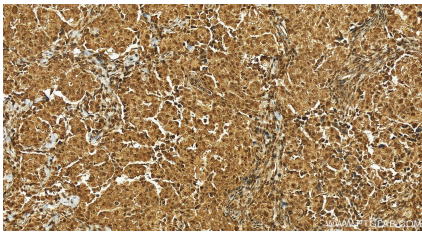
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# Selected Validation Data



THP-1 cells were subjected to SDS PAGE followed by western blot with 24976-1-AP (USP4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 24976-1-AP (USP4 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).