

For Research Use Only

# USP37 Polyclonal antibody

Catalog Number: 18465-1-AP

Featured Product

13 Publications



## Basic Information

### Catalog Number:

18465-1-AP

### Size:

150ul, Concentration: 180 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12513

### GenBank Accession Number:

BC112901

### GeneID (NCBI):

57695

### UNIPROT ID:

Q86T82

### Full Name:

ubiquitin specific peptidase 37

### Calculated MW:

885 aa, 100 kDa

### Observed MW:

110 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse brain tissue, mouse spleen tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human breast 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

USP37 (ubiquitin specific peptidase 37), is a member of ubiquitin-specific processing proteases family. Human USP37, localized mainly in the cytoplasm, is composed of 979 amino acids harboring three ubiquitin-interacting motifs between the Cys box and His box of the primary sequence (PMID: 27045719, 24324262). High levels of USP37 gene expression in lung cancer promoted cell viability as well as the Warburg effect via deubiquitination and stabilization of pluripotent factor c-Myc protein (PMID: 25284584). Moreover, USP37 expression was upregulated in breast cancer tissues compared with surrounding tissues and its overexpression was significantly correlated with increased rates of mortality. USP37 may represent a novel molecular target for breast cancer treatment (PMID: 30482232, 27045719).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenying Gao	34630422	Front Immunol	WB
Chenming Wu	34606619	Nucleic Acids Res	WB,IF,IHC
Tao Qin	30482232	J Exp Clin Cancer Res	WB,IHC,IF

## 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

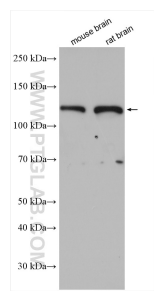
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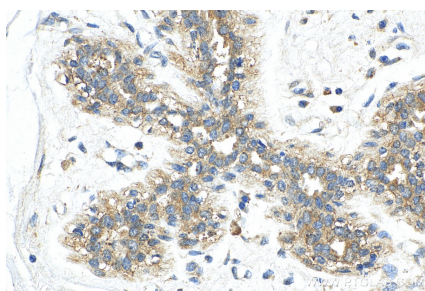
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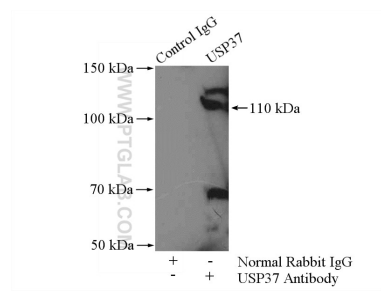
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18465-1-AP (USP37 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18465-1-AP (USP37 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-USP37 (IP:18465-1-AP, 4ug; Detection:18465-1-AP 1:500) with mouse brain tissue lysate 4000ug.