

For Research Use Only

# XBP-1U specific Polyclonal antibody

Catalog Number: 25997-1-AP

Featured Product

47 Publications



## Basic Information

### Catalog Number:

25997-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG21714

### GenBank Accession Number:

BC000938

### GeneID (NCBI):

7494

### UNIPROT ID:

P17861

### Full Name:

X-box binding protein 1

### Calculated MW:

261 aa, 29 kDa

### Observed MW:

32 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:200-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**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 : rat spleen tissue, mouse spleen tissue

IHC : human breast cancer tissue, human colon cancer tissue, human liver cancer tissue, mouse liver tissue

## Background Information

X-box-binding protein 1 (XBP1), also named as TREB5, is a 261 amino acid protein, which contains one bZIP domain and belongs to the bZIP family. XBP1 localizes in the nucleus and as a transcription factor is essential for hepatocyte growth, the differentiation of plasma cells, the immunoglobulin secretion, and the unfolded protein response. XBP1 has an association with major affective disorder. The molecular weight of protein generated from the spliced XBP1 mRNA is 54 kDa and protein generated from unspliced Xbp1 mRNA is 33 kDa. This antibody 25997-1-AP specially recognizes isoform XBP-1U.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaona Liu	28961540	Chemosphere	WB
Tongtong Liu	34530836	J Neuroinflammation	WB
Lin Zhang	32963696	Oxid Med Cell Longev	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

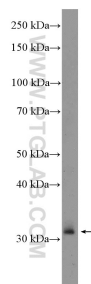
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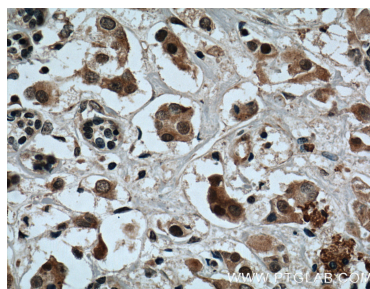
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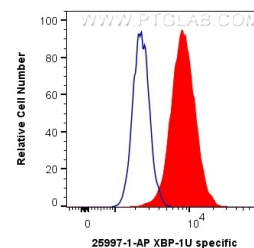
## Selected Validation Data



rat spleen tissue were subjected to SDS PAGE followed by western blot with 25997-1-AP (XBP1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 25997-1-AP (XBP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human XBP-1U specific (25997-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).