

For Research Use Only

# XBP1S-specific Polyclonal antibody

Catalog Number: 24868-1-AP

Featured Product

65 Publications



## Basic Information

**Catalog Number:**

24868-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG21703

**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:**

55-65 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**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:** HEK-293T cells, MCF-7 cells, mouse liver tissue, rat liver tissue

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

## Background Information

XBP1, also named as XBP2, belongs to the bZIP family. The X-box-binding protein-1 (XBP1) is a transcriptional regulator of the ER stress response that lies downstream of inositol-requiring enzyme 1 (IRE1 $\alpha$ ) activation (PMID: 14559994). XBP1 localizes in the nucleus. As a transcription factor, it 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 unspliced XBP1U isoform is composed of 261 amino acid residues, and the spliced XBP1S isoform is composed of 376 amino acid residues. The calculated molecular weight of protein generated from the unspliced XBP1 isoform XBP1U mRNA is 33 kDa, and protein generated from spliced XBP1 isoform XBP1S mRNA is 54 kDa. This antibody specially recognizes the XBP1S isoform.

## Notable Publications

Author	Pubmed ID	Journal	Application
Guoqing Jing	36171629	J Neuroinflammation	WB
Jing Sun	34650437	Front Pharmacol	WB
Yu Chen	34592660	Cell Calcium	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

For technical support and original validation data for this product please contact:

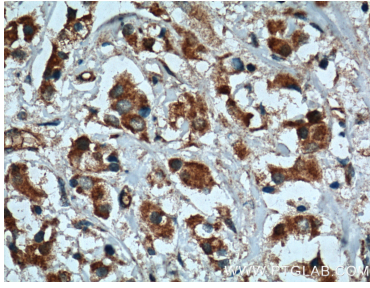
T: 4006900926

E: Proteintech-CN@ptglab.com

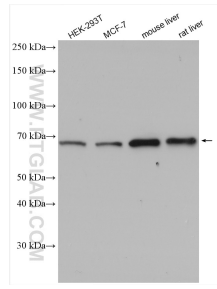
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

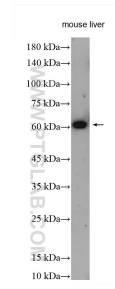
## Selected Validation Data



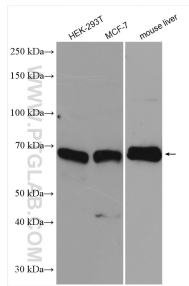
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24868-1-AP (XBP1S antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



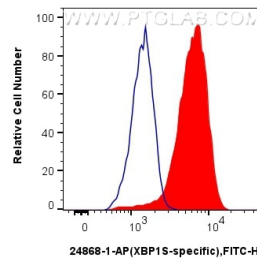
Various lysates were subjected to SDS PAGE followed by western blot with 24868-1-AP (XBP1S-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



mouse liver tissue were subjected to SDS PAGE followed by western blot with 24868-1-AP (XBP1S-specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 24868-1-AP (XBP1S-specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> Ramos cells were intracellularly stained with 0.4 ug Anti-Human XBP1S-specific (24868-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.