

For Research Use Only

XBP-1U specific Polyclonal antibody

Catalog Number: 25997-1-AP

Featured Product

48 Publications



Basic Information

Catalog Number:

25997-1-AP

Concentration:

700 µg/ml

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

FC (Intra): 0.40 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, IP

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

FC (Intra) : HepG2 cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

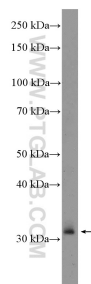
T: 4006900926

E: Proteintech-CN@ptglab.com

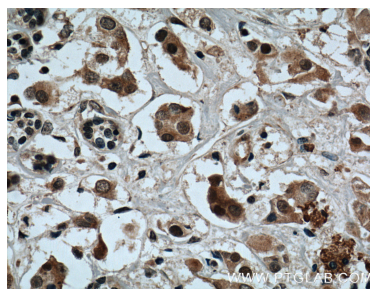
W: ptgcn.com

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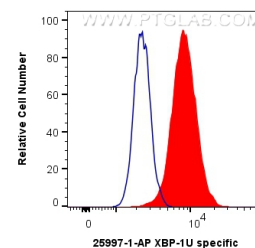
Selected Validation Data



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).



1X10⁶ 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).