

For Research Use Only

# XBP1S-specific Recombinant antibody

Catalog Number: 83959-6-RR



## Basic Information

Catalog Number: 83959-6-RR	GenBank Accession Number: BC000938	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 7494	CloneNo.: 241004C10
Source: Rabbit	UNIPROT ID: P17861	Recommended Dilutions: IHC 1:200-1:800
Isotype: IgG	Full Name: X-box binding protein 1	
Immunogen Catalog Number: AG21703	Calculated MW: 261 aa, 29 kDa	

## Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : mouse liver tissue,
Species Specificity: human	

**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

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.

## 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:

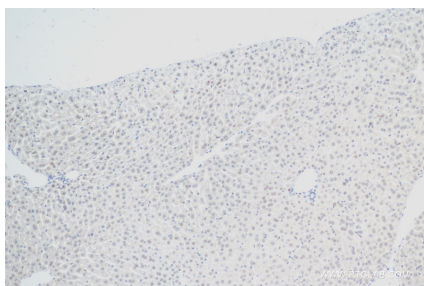
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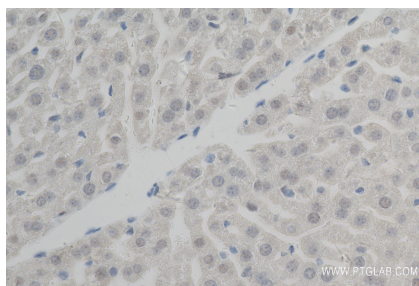
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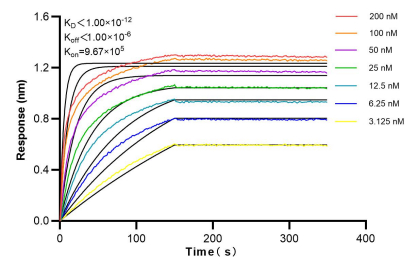
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83959-6-RR (XBP1S-specific antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83959-6-RR (XBP1S-specific antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83959-6-RR against Human XBP1S-specific were performed. The affinity constant is below 1 pM.