

For Research Use Only

XBP1S-specific Recombinant antibody, PBS Only

Catalog Number: 83959-5-PBS



Basic Information

Catalog Number: 83959-5-PBS	GenBank Accession Number: BC000938	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 7494	CloneNo.: 241004B6
Source: Rabbit	UNIPROT ID: P17861	
Isotype: IgG	Full Name: X-box binding protein 1	
Immunogen Catalog Number: AG21703	Calculated MW: 261 aa, 29 kDa	
	Observed MW: 60 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

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 α) 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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

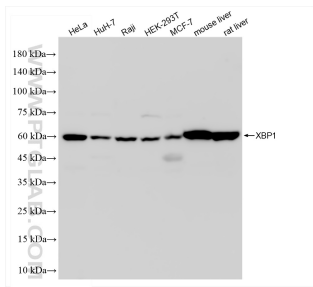
T: 4006900926

E: Proteintech-CN@ptglab.com

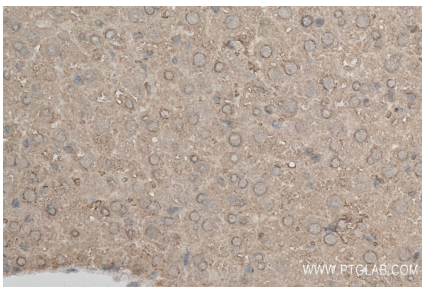
W: ptgcn.com

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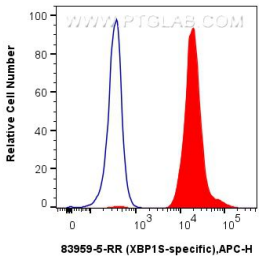
Selected Validation Data



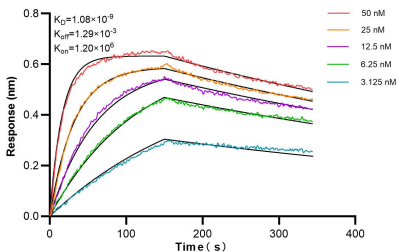
Various lysates were subjected to SDS PAGE followed by western blot with 83959-5-RR (XBP1S-specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83959-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83959-5-RR (XBP1S-specific antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83959-5-PBS in a different storage buffer formulation.



1x10⁶ Ramos cells were intracellularly stained with 0.25 ug XBP1S-specific Recombinant antibody (83959-5-RR, Clone:241004B6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 83959-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83959-5-RR against Human XBP1S-specific were performed. The affinity constant is 1.08 nM.