

For Research Use Only

BZW1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 85655-1-PBS



Basic Information

Catalog Number: 85655-1-PBS	GenBank Accession Number: BC001804	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 9689	CloneNo.: 243162H4
Source: Rabbit	UNIPROT ID: Q7L1Q6	
Isotype: IgG	Full Name: basic leucine zipper and W2 domains 1	
Immunogen Catalog Number: AG13830	Calculated MW: 353 aa, 41 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

85655-1-PBS targets BZW1 as part of a matched antibody pair:

MP02022-1: 85655-3-PBS capture and 85655-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

BZW1, also known as basic leucine zipper and W2 domains 1, is a member of the basic leucine zipper (bZIP) superfamily of transcription factors. It is a 45 kDa protein that contains an N-terminal bZIP domain for protein interactions and a C-terminal nucleotide (ATP or GTP) binding domain. Human BZW1 can activate transcription of the histone H4 gene and serve as a co-regulator with other transcription factors to control the cell cycle. In recent years, BZW1 has been identified as enhancing phosphorylation to promote glycolysis in pancreatic ductal adenocarcinoma. Moreover, BZW1 has been found to regulate the cell cycle in ovarian cancer, thereby promoting its progression. Additionally, BZW1 plays a crucial role in mucoepidermoid carcinoma of the salivary glands. BZW1 is also involved in the regulation of translation initiation, acting as a translational rheostat and autoregulating its own translation. It has been suggested that BZW1, as well as its paralog BZW2, is an eIF5-mimic protein. BZW1 has been shown to facilitate glycolysis and promote tumor growth in pancreatic ductal adenocarcinoma through potentiating eIF2 α phosphorylation, and it may serve as a therapeutic target for patients with pancreatic cancer. In macrophages, activation of BZW1 by CEBPB promotes eIF2 α phosphorylation-mediated metabolic reprogramming and endoplasmic reticulum stress. BZW1 has also been found to be associated with the Wnt/ β -catenin pathway in lung adenocarcinoma, potentially influencing epithelial-mesenchymal transition (EMT) processes.

Storage

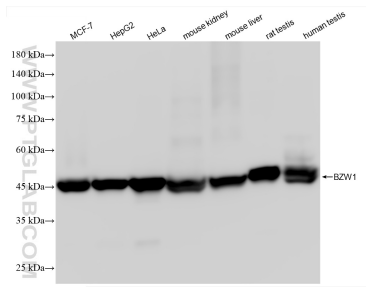
Storage:
Store at -80°C.

Storage Buffer:
PBS only

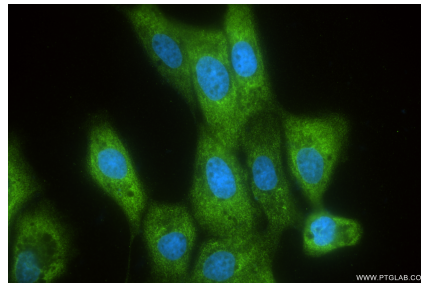
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

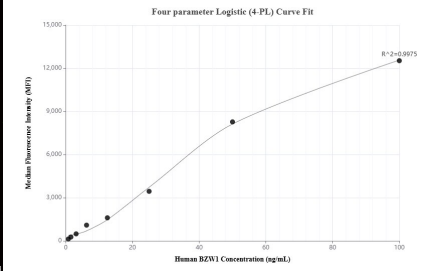
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85655-1-RR (BZW1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85655-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using BZW1 antibody (85655-1-RR, Clone: 243162H4) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 85655-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02022-1, BZW1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85655-3-PBS. Detection antibody: 85655-1-PBS. Standard: Ag13830. Range: 0.781-100 ng/mL.