

For Research Use Only

# PWWP2B Polyclonal antibody, PBS Only

Catalog Number: 32112-1-PBS



## Basic Information

<b>Catalog Number:</b> 32112-1-PBS	<b>GenBank Accession Number:</b> BC068574	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 170394	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q6NUJ5	
<b>Isotype:</b> IgG	<b>Full Name:</b> PWWP domain containing 2B	
<b>Immunogen Catalog Number:</b> AG36839	<b>Observed MW:</b> 90 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

PWWP2B (PWWP structural domain protein 2B) is a PWWP structural domain-containing protein involved in a variety of cellular functions and biological processes. PWWP2B is highly expressed in brown and beige adipose tissue and its expression is induced by cold stimulation. It has been shown that PWWP2B negatively regulates adipose tissue thermogenesis by recruiting and stabilizing the histone deacetylase HDAC1/2, which binds to the promoter regions of thermogenic genes and reduces histone acetylation levels. In adipocytes, PWWP2B acts as part of the nucleosome remodeling and deacetylation complex (NuRD) to inhibit the expression of thermogenic genes and avoid overactivation of thermogenic functions. In addition, PWWP2B plays an important role in DNA damage repair, as its PWWP structural domain moves to DNA damage sites, interacts with UHRF1 and recruits MRE11 to promote DNA end resection and homologous recombination repair. In pathology, downregulation of PWWP2B is associated with recurrent gastric cancer and promotes cell proliferation and migration.

## Storage

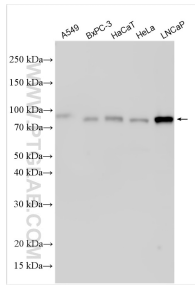
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

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  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32112-1-AP (PWWP2B antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32112-1-PBS in a different storage buffer formulation.