

For Research Use Only

# PQBP1 Recombinant antibody

Catalog Number: 84491-6-RR



## Basic Information

<b>Catalog Number:</b> 84491-6-RR	<b>GenBank Accession Number:</b> BC012358	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10084	<b>CloneNo.:</b> 241901B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O60828	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> polyglutamine binding protein 1	
<b>Immunogen Catalog Number:</b> AG9329	<b>Calculated MW:</b> 265 aa, 30 kDa	
	<b>Observed MW:</b> 30-32 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HEK-293T cells, mouse pancreas tissue, rat brain tissue, rat thymus tissue
	<b>IF/ICC :</b> HeLa cells,

## Background Information

PQBP1 (Polyglutamine-binding protein 1) is also named as NPW38 and JM26. PQBP1 senses extrinsic tau 3R/4R proteins by direct interaction and triggers an innate immune response by activating a cyclic GMP-AMP synthase (cGAS)-Stimulator of interferon genes (STING) pathway (PMID: 34782623). PQBP1 is abundantly expressed in the central nervous system during development. PQBP1 is a component of the precatalytic spliceosome (B complex) that is involved in splicing. PQBP1 was predominantly localized in the cell nucleus. PQBP1 is overexpressed in various cancer types including breast cancer, colon cancer, and glioblastoma (PMID: 38342602).

## Storage

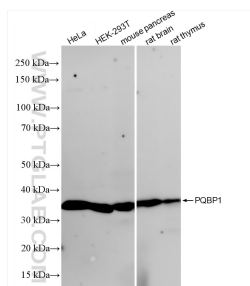
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

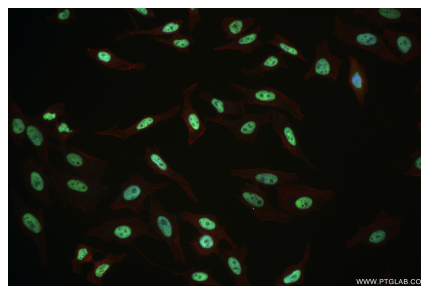
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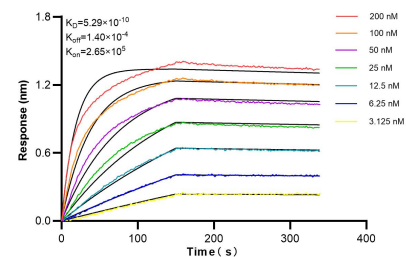
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84491-6-RR (PQBP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PQBP1 antibody (84491-6-RR, Clone: 241901B11) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84491-6-RR against Human PQBP1 were performed. The affinity constant is 0.529 nM.