

For Research Use Only

# BRD2 Recombinant antibody, PBS Only

Catalog Number: 85990-2-PBS



## Basic Information

<b>Catalog Number:</b> 85990-2-PBS	<b>GenBank Accession Number:</b> BC063840	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 6046	<b>CloneNo.:</b> 250453G5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P25440	
<b>Isotype:</b> IgG	<b>Full Name:</b> bromodomain containing 2	
<b>Immunogen Catalog Number:</b> AG17589	<b>Calculated MW:</b> 836 aa, 92 kDa	
	<b>Observed MW:</b> 100-110 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

BRD2 (Bromodomain-containing protein 2), also known as RING3, is a member of the Bromodomain and Extra-Terminal (BET) family of proteins. These proteins contain two bromodomains and one extra-terminal domain. BRD2 primarily localizes to the nucleus and functions as an atypical protein kinase. Its main role involves the activation of E2F1 and E2F2 proteins, facilitating the production of proteins essential for the G1/S phase transition of the cell cycle. BRD2 specifically recognizes acetylated histones through its bromodomains, particularly acetylated lysine residues on histones H3 and H4. This interaction allows BRD2 to recruit various transcription factors, co-activators, and repressors, thereby modulating transcriptional activity. BRD2 plays a crucial role in chromatin remodeling by recruiting proteins such as histone deacetylases. It is highly expressed during neural tube development and closure, making it essential for neurogenesis and embryogenesis. (PMID: 33462181, PMID: 37926722)

## 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, pH7.3

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

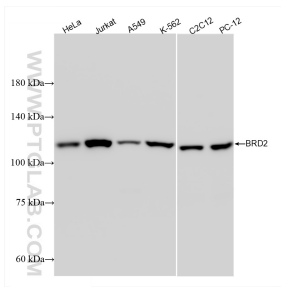
T: 4006900926

E: Proteintech-CN@ptglab.com

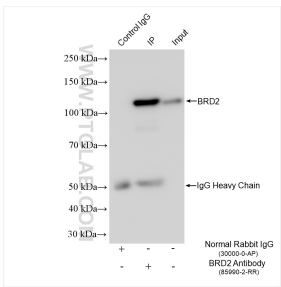
W: ptgcn.com

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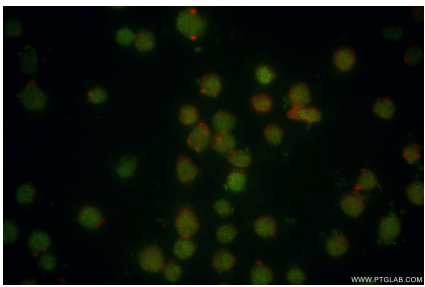
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85990-2-RR (BRD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85990-2-PBS in a different storage buffer formulation.



IP result of anti-BRD2 (IP:85990-2-RR, 4ug; Detection:85990-2-RR 1:3000) with HeLa cells lysate 1600 ug. This data was developed using the same antibody clone with 85990-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using BRD2 antibody (85990-2-RR, Clone: 250453G5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 85990-2-PBS in a different storage buffer formulation.