

For Research Use Only

BRD2 Recombinant antibody, PBS Only

Catalog Number: 85990-2-PBS



Basic Information

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

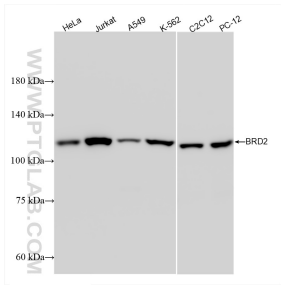
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

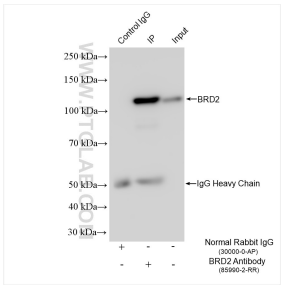
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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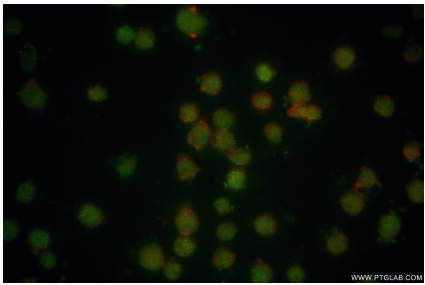
Selected Validation Data



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.