

Multi-rAb® BRD2 Multi-Recombinant antibody

Catalog Number: RMX00117

Basic Information

Catalog Number:

RMX00117

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC063840

GeneID (NCBI):

6046

UNIPROT ID:

P25440

Full Name:

bromodomain containing 2

Calculated MW:

836 aa, 92 kDa

Observed MW:

100-110 kDa

Purification Method:

N/A

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:250-1:1000

IF/ICC: 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, MCF-7 cells, RAW 264.7 cells, PC-12 cells

IHC: mouse colon tissue,

IF/ICC: HeLa cells,

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:

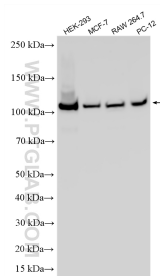
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

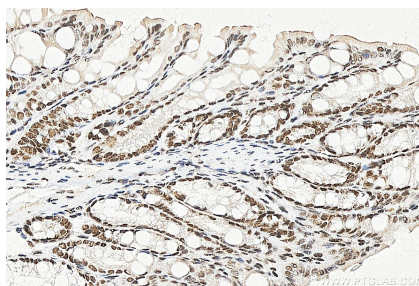
PBS with 0.02% sodium azide and 50% glycerol.

Aliquoting is unnecessary for -20°C storage

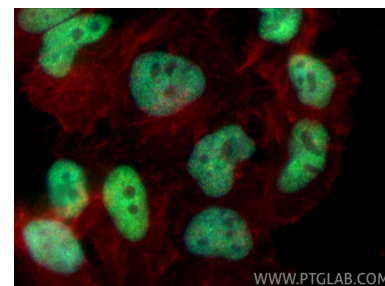
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with RMX00117 (BRD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using RMX00117 (BRD2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using BRD2 antibody (RMX00117) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).