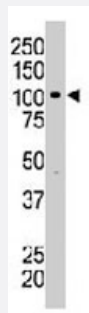


# BRD2 polyclonal antibody

Catalog # PAB3245

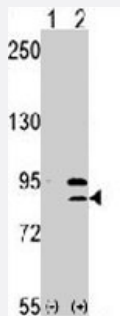
Size 400 uL

## Applications



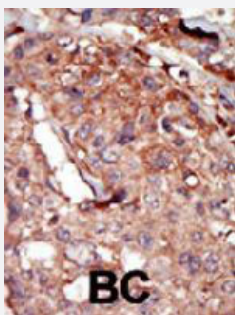
### Western Blot (Cell lysate)

(LEFT) Western blot analysis of BRD2 polyclonal antibody (Cat # PAB3245) in A-375 cell lysate. BRD2 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



### Western Blot (Transfected lysate)

Western blot analysis of BRD2 (arrow) using rabbit BRD2 polyclonal antibody (Cat # PAB3245). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the BRD2 gene (Lane 2) (Origene Technologies).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with BRD2 polyclonal antibody (Cat # PAB3245), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of BRD2.

### Immunogen

A synthetic peptide (conjugated with KLH) corresponding to internal region of human BRD2.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

(LEFT) Western blot analysis of BRD2 polyclonal antibody (Cat # PAB3245) in A-375 cell lysate. BRD2 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

- Western Blot (Transfected lysate)

Western blot analysis of BRD2 (arrow) using rabbit BRD2 polyclonal antibody (Cat # PAB3245). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the BRD2 gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with BRD2 polyclonal antibody (Cat # PAB3245), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Gene Info — BRD2

Entrez GeneID	<a href="#">6046</a>
Protein Accession#	<a href="#">P25440</a>
Gene Name	BRD2
Gene Alias	D6S113E, DKFZp686N0336, FLJ31942, FSH, FSRG1, KIAA9001, NAT, RING3, RNF3

Gene Description	bromodomain containing 2
Omim ID	<a href="#">601540</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene encodes a transcriptional regulator that belongs to the BET (bromodomains and extra terminal domain) family of proteins. This protein associates with transcription complexes and with acetylated chromatin during mitosis, and it selectively binds to the acetylated lysine-12 residue of histone H4 via its two bromodomains. The gene maps to the major histocompatibility complex (MHC) class II region on chromosome 6p21.3, but sequence comparison suggests that the protein is not involved in the immune response. This gene has been implicated in juvenile myoclonic epilepsy, a common form of epilepsy that becomes apparent in adolescence. Multiple alternatively spliced variants have been described for this gene, but the full-length nature of some of these variants has not been determined. [provided by RefSeq]
Other Designations	OTTHUMP00000029350 bromodomain-containing 2 female sterile homeotic-related gene 1

## Publication Reference

- [Therapeutic targeting of BET bromodomain proteins in castration-resistant prostate cancer.](#)

Asangani IA, Dommeti VL, Wang X, Malik R, Cieslik M, Yang R, Escara-Wilke J, Wilder-Romans K, Dhanireddy S, Engelke C, Iyer MK, Jing X, Wu YM, Cao X, Qin ZS, Wang S, Feng FY, Chinnaiyan AM.

Nature 2014 Jun; 510(7504):278.

Application: WB-Ce, Human, VCaP, LNCaP, 22RV1, RWPE, PC3, DU145 cells
- [BRD2 \(RING3\) is a probable major susceptibility gene for common juvenile myoclonic epilepsy.](#)

Pal DK, Evgrafov OV, Tabares P, Zhang F, Durner M, Greenberg DA.

American Journal of Human Genetics 2003 Jun; 73(2):261.
- [Reproductive cycle regulation of nuclear import, euchromatic localization, and association with components of Pol II mediator of a mammalian double-bromodomain protein.](#)

Crowley TE, Kaine EM, Yoshida M, Nandi A, Wolgemuth DJ.

Molecular Endocrinology 2002 Aug; 16(8):1727.
- [RING3 kinase transactivates promoters of cell cycle regulatory genes through E2F.](#)

Denis GV, Vaziri C, Guo N, Faller DV.

Cell Growth & Differentiation 2000 Aug; 11(8):417.

Application: IP, WB-Ce, Human, Mouse, HeLa, NIH/3T3 cells

## Disease

- [Abortion](#)
- [Alzheimer disease](#)
- [Cerebral Amyloid Angiopathy](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Myoclonic Epilepsy](#)
- [Neuroblastoma](#)
- [Oligospermia](#)
- [Photosensitivity Disorders](#)