BRD4 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

|			
Catalog No.	A301-985A100	Protein ID	NP_490597.1
Lot No.	A301-985A100-4	Gene ID	23476

APPLICATIONS	WB, IP, IHC-P, IF, PLA
REACTIVITY TESTED	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Mouse, Rat, Bovine, Dog, Horse, Rabbit, Guinea pig_10141, Pig, Panda, Orangutan, Rhesus Monkey, Gorilla, West Indian ocean coelacanth, African elephant, Chinese hamster, Naked mole rat and Northern white-cheeked gibbon.
ISOTYPE	IgG
AMOUNT	100 µl at 1 mg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to BRD4 immobilized on solid support.
	The epitope recognized by A301-985A100 maps to a region between residue 1312 and 1362 of human bromodomain-containing protein 4 using the numbering given in entry NP_490597.1 (GeneID 23476).
	Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
APPLICATIONS	Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:2,000 to 1:10,000
Immunoprecipitation	2 to 10 µg/mg lysate
Immunohistochemistry	1:1,000 to 1:5,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
Immunofluorescence	1:500 to 1:2,500
Proximity Ligation Assay	1:200 - 1:4,000

|	
APPLICATION NOTES	Validation by IP/Western Blot was performed using a 4-8% SDS-PAGE gel and ReliaBLOT® Reagents (Cat. No. WB120).
	IHC validation was performed using Immunohistochemistry Accessory Kit (Cat. # IHC-101).
IHC HUMAN CONTROLS	Breast Carcinoma, Lung Cancer, Ovarian Carcinoma
IHC MOUSE CONTROLS	Renal Cell Carcinoma
ADDITIONAL INFO	http://www.bethyl.com/product/A301-985A100
	Use the link above to view SDS, a current list of citations, and other product specific information.

Bethyl Laboratories, Inc. • 25043 West FM 1097 • Montgomery, TX 77356 •
800.338.9579 • 936.597.6111 • 866.597.6105 (FAX) • www.bethyl.com • technical@bethyl.com

1
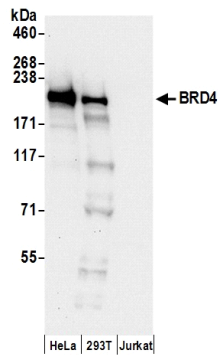
Detection of Human BRD4 by Western Blot. *Samples:* Whole cell lysate (50 μg) from HeLa, 293T, and Jurkat cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-BRD4 antibody A301-985A100 (lot A301-985A100-4) used for WB at 0.1 μg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.
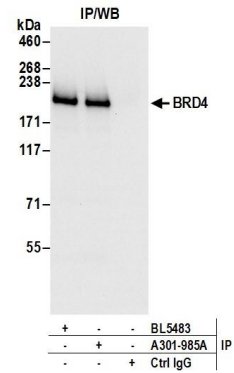
Detection of Human BRD4 by Western Blot of Immunoprecipitates. *Samples:* Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-BRD4 antibody A301-985A100 (lot A301-985A100-4) used for IP at 6 μg per reaction. BRD4 was also immunoprecipitated by rabbit anti-BRD4 antibody BL5483. For blotting immunoprecipitated BRD4, A301-985A100 was used at 1 μg/ml. *Detection:* Chemiluminescence with an exposure time of 3 seconds.
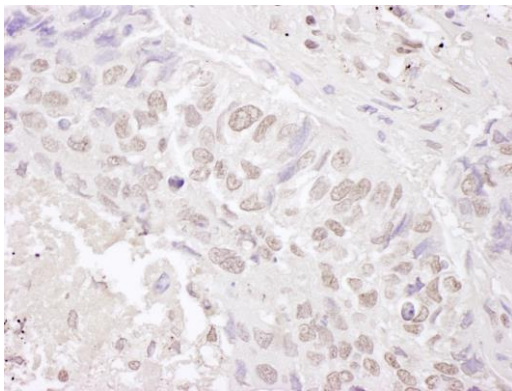
Detection of Human BRD4 by Immunohistochemistry. *Sample:* FFPE section of human lung carcinoma. *Antibody:* Affinity purified rabbit anti-BRD4 (Cat. No. A301-985A100 Lot4) used at a dilution of 1:1,000 (1μg/ml). *Detection:* DAB staining using Immunohistochemistry Accessory Kit (Cat. No. IHC-101).
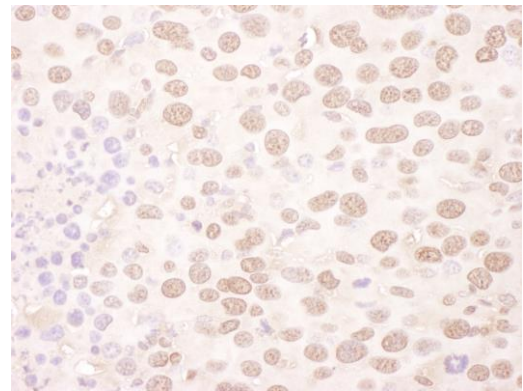
Detection of Mouse BRD4 by Immunohistochemistry. *Sample:* FFPE section of mouse renal cell carcinoma. *Antibody:* Affinity purified rabbit anti-BRD4 (Cat. No. A301-985A100 Lot4) used at a dilution of 1:1,000 (1μg/ml). *Detection:* DAB staining using Immunohistochemistry Accessory Kit (Cat. No. IHC-101).
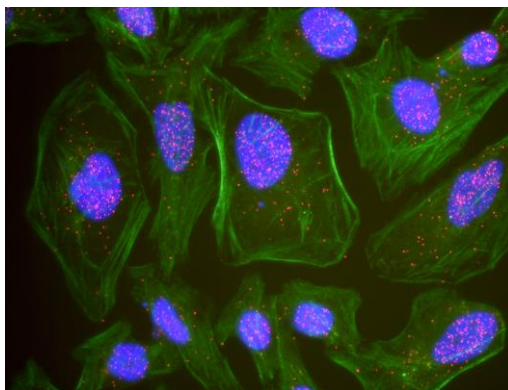
This antibody is qualified for the Proximity Ligation Assay (PLA). PLA uses paired antibodies, so please refer to the PLA page of our website for specific imaging obtained by pairing this antibody with other qualified antibodies. The above image shows representative results for PLA using three color fluorescence, including DAPI stained nuclei (blue), phalloidin stained cytoplasmic F-actin (green), and PLA positive signal (red).

Bethyl Laboratories, Inc. • 25043 West FM 1097 • Montgomery, TX 77356 •
800.338.9579 • 936.597.6111 • 866.597.6105 (FAX) • www.bethyl.com • technical@bethyl.com

3