

BRD4 Recombinant Mouse Monoclonal Antibody (23476)

Catalog Number730007

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Recombinant Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunoprecipitation (IP)	2 µg
Clone	23476	Western Blot (WB)	Assay-dependent
Immunogen	333-460 of 1362 of BRD4 Protein.	Published Applications	
Conjugate	Unconjugated	Immunoprecipitation (IP)	See 1 publications below
Form	Liquid	Immunocytochemistry (ICC/IF)	See 1 publications below
Concentration	0.5 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	Maintain refrigerated at 2-8°C for up to 1 month. For long term storage store at -20°C		

Product specific information

Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and more lot-to-lot consistency.

Background/Target Information

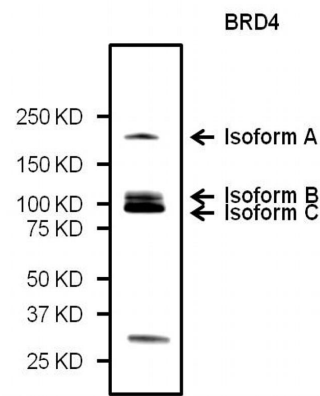
BRD4, a ubiquitously expressed nuclear phosphoprotein, is a member of BET protein family. It is a human homolog of mouse MCAP and consists of 2 N-terminal bromodomains, a central ET-domain, and several kinase-like motifs in its N-terminus. It is expressed as 2 isoforms; the longer variant has a C-terminus region with a praline and glutamine-rich domains. BRD4 is a chromatin-binding protein whose expression is induced in response to growth stimuli. BRD4 acts at different stages of the cell cycle by interacting with proteins including RFC and SPA-1 and regulates cell growth. It also has a role in regulating chromosomal dynamics during mitosis. BRD4 functions as a cellular target for E2 protein of papillomavirus.

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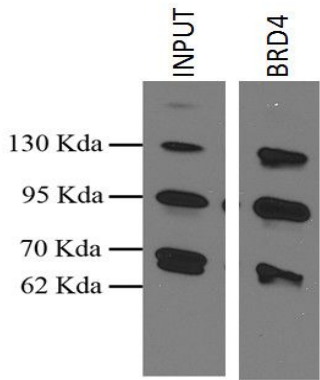
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BRD4 Antibody (730007) in WB

J-Lat Full Length cell lysate 40 µg was loaded on 4-15% gel and transferred to 0.45 µm PVDF Membrane. BRD4 Monoclonal Antibody (Product # 730007) was diluted at 1:500 in 1xTBST buffer with 5% non fat milk and incubated overnight at 4C. Goat anti-mouse HRP-conjugated secondary antibody was diluted at 1:2000 in 1xTBST buffer with 5% non fat milk and incubated for 1 hour at 21C.



BRD4 Antibody (730007) in IP

Immunoprecipitation analysis using Anti-BRD4 Recombinant Mouse Monoclonal Antibody (Product # 730007) followed by western blot detection. Immunoprecipitation was performed on HEK293 cells over expressing flag-tagged BRD4 protein. Western blot using an anti-flag antibody was performed on the raw lysate (lane 1) and immunoprecipitated protein (lane 2) to evaluate the results of Immunoprecipitation. Because detection utilizes an anti-flag antibody, the presence of multiple bands suggests multiple forms of flag-tagged BRD4 protein rather than cross-reactivity of the Anti-BRD4 Recombinant Mouse Monoclonal Antibody.

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PubMed References For BRD4 Recombinant Mouse Monoclonal Antibody (23476)

1 Immunoprecipitation References

Species / Dilution	Summary
Human / 2 µg	730007 was used in immunoprecipitation to describe a mass spectrometry-based method for scoring immunoprecipitation antibody quality
	Nature methods (2015; 12: 725)
	"Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation." Author(s):Marcon E,Jain H,Bhattacharya A,Guo H,Phanse S,Pu S,Byram G,Collins BC,Dowdell E,Fenner M,Guo X,Hutchinson A,Kennedy JJ,Krastins B,Larsen B,Lin ZY,Lopez MF,Loppnau P,Miersch S,Nguyen T,Olsen JB,Paduch M,Ravichandran M,Seitova A,Vadali G,Vogelsang MS,Whiteaker JR,Zhong G,Zhong N,Zhao L,Aebersold R,Arrowsmith CH,Emili A,Frappier L,Gingras AC,Gstaiger M,Paulovich AG,Koide S,Kossiakoff AA,Sidhu SS,Wodak SJ,Gräslund S,Greenblatt JF,Edwards AM PubMed Article URL: http://dx.doi.org/10.1038/nmeth.3472

1 Immunocytochemistry References

Species / Dilution	Summary
Human / Not Cited	730007 was used in immunocytochemistry to evaluate the BioID proximity-based biotin labeling technique for the identification of novel c-MYC interacting partners in cultured cells and xenograft tumors
	Journal of proteomics (2015; 118: 95)
	"BioID identifies novel c-MYC interacting partners in cultured cells and xenograft tumors." Author(s):Dingar D,Kalkat M,Chan PK,Srikumar T,Bailey SD,Tu WB,Coyaud E,Ponzielli R,Kolyar M,Jurisica I,Huang A,Lupien M,Penn LZ,Raught B PubMed Article URL: http://dx.doi.org/10.1016/j.jprot.2014.09.029

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