

Rabbit BRD4 Polyclonal Antibody | anti-BRD4 antibody

Anti-BRD4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125518	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

BRD4; Polyclonal Antibody; Anti-BRD4 Antibody; HUNK1; Bromodomain-containing protein 4; Protein HUNK1; bromodomain containing 4; anti-BRD4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for BRD4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-BRD4 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human BRD4 recombinant protein (Position: A802-R1163).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-BRD4 antibody (AAA125518). Overlay histogram showing 293T cells stained with AAA125518 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BRD4 Antibody (AAA125518, 1 μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of BRD4 using anti-BRD4 antibody (AAA125518). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates Lane 2: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BRD4 antigen affinity purified polyclonal antibody (Catalog # AAA125518) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BRD4 at approximately 180 kDa. The expected band size for BRD4 is at 152 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BRD4 antibody	Bromodomain-containing protein 4 is a protein that in humans is encoded by the BRD4 gene. The protein encoded by this gene is homologous to the murine protein MCAP, which associates with chromosomes during mitosis, and to the human RING3 protein, a serine/threonine kinase. Each of these proteins contains two bromodomains, a conserved sequence motif which may be involved in chromatin targeting. This gene has been implicated as the chromosome 19 target of translocation t(15;19)(q13;p13. 1), which defines an upper respiratory tract carcinoma in young people. Two alternatively spliced transcript variants have been described.
References	1. Choe, J., Lin, S., Zhang, W., Liu, Q., Wang, L., Ramirez-Moya, J., Du, P., Kim, W., Tang, S., Sliz, P., Santisteban, P., George, R. E., Richards, W. G., Wong, K. -K., Locker, N., Slack, F. J., Gregory, R. I. mRNA circularization by METTL3-eIF3h enhances translation and promotes oncogenesis. Nature 561: 556-560, 2018. 2. Crawford, N. P. S., Alsarraj, J., Lukes, L., Walker, R. C., Officewala, J. S., Yang, H. H., Lee, M. P., Ozato, K., Hunter, K. W. Bromodomain 4 activation predicts breast cancer survival. Proc. Nat. Acad. Sci. 105: 6380-6385, 2008. 3. Dawson, M. A., Prinjha, R. K., Dittmann, A., Giotopoulos, G., Bantscheff, M., Chan, W. -I., Robson, S. C., Chung, C., Hopf, C., Savitski, M. M., Huthmacher, C., Gudgin, E., and 15 others. Inhibition of BET recruitment to chromatin as an effective treatment for MLL-fusion leukaemia. Nature 478: 529-533, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657218
NCBI GeneID	23476
NCBI Accession #	NP_055114.1
NCBI GenBank Nucleotide #	NM_014299.2
UniProt Accession #	O60885; O60433; Q4G0X8; Q86YS8; Q96PD3
Molecular Weight	152kDa
NCBI Official Full Name	bromodomain-containing protein 4 isoform short
NCBI Official Synonym Full Names	bromodomain containing 4
NCBI Official Symbol	BRD4
NCBI Official Synonym Symbols	CAP; MCAP; HUNK1; HUNKI
NCBI Protein Information	bromodomain-containing protein 4; bromodomain-containing 4; chromosome-associated protein
UniProt Protein Name	Bromodomain-containing protein 4
UniProt Gene Name	BRD4
UniProt Synonym Gene Names	HUNK1
UniProt Entry Name	BRD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/brd4-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125518>