

Rabbit BRD7 Polyclonal Antibody | anti-BRD7 antibody

Anti-BRD7 Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124637	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

BRD7; Polyclonal Antibody; Anti-BRD7 Picoband antibody; Bromodomain-containing protein 7; 75 kDa bromodomain protein; Protein CELTIX-1; BP75; CELTIX1; anti-BRD7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	652
Applicable Applications for anti-BRD7 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human BRD7 recombinant protein (Position: T514-R567).
Subcellular Localization	Isoform 2: Nucleus.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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



IHC (Immunohistochemistry)

Figure 3. IHC analysis of BRD7 using anti-BRD7 antibody (AAA124637). BRD7 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-BRD7 Antibody (AAA124637) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of BRD7 using anti-BRD7 antibody (AAA124637). BRD7 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-BRD7 Antibody (AAA124637) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of BRD7 using anti-BRD7 antibody (AAA124637). 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 50ug of sample under reducing conditions. Lane 1: human SW620 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-BRD7 antigen affinity purified polyclonal antibody at 0.5ug/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 1:10000 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 BRD7 at approximately 90KD. The expected band size for BRD7 is at 74KD.

ADDITIONAL INFORMATION

Related Product Information for anti-BRD7 antibody	Description: Bromodomain-containing protein 7 is a protein that in humans is encoded by the BRD7 gene. This gene encodes a protein which is a member of the bromodomain-containing protein family. The product of this gene has been identified as a component of one form of the SWI/SNF chromatin remodeling complex, and as a protein which interacts with p53 and is required for p53-dependent oncogene-induced senescence which prevents tumor growth. Pseudogenes have been described on chromosomes 2, 3, 6, 13 and 14. Alternative splicing results in multiple transcript variants. Protein Function: Acts both as coactivator and as corepressor. May play a role in chromatin remodeling. Activator of the Wnt signaling pathway in a DVL1-dependent manner by negatively regulating the GSK3B phosphotransferase activity. Induces dephosphorylation of GSK3B at 'Tyr-216'. Down-regulates TRIM24-mediated activation of transcriptional activation by AR (By similarity). Transcriptional corepressor that down-regulates the expression of target genes. Binds to target promoters, leading to increased histone H3 acetylation at 'Lys-9' (H3K9ac). Binds to the ESR1 promoter. Recruits BRCA1 and POU2F1 to the ESR1 promoter. Coactivator for TP53-mediated activation of transcription of a set of target genes. Required for TP53-mediated cell-cycle arrest in response to oncogene activation. Promotes acetylation of TP53 at 'Lys-382', and thereby promotes efficient recruitment of TP53 to target promoters. Inhibits cell cycle progression from G1 to S phase.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	291219913
NCBI GeneID	29117
NCBI Accession #	NP_001167455.1
NCBI GenBank Nucleotide #	NM_001173984.2
UniProt Accession #	Q9NPI1; Q4VC09; Q8N2L9; Q96KA4; Q9BV48; Q9UH59
Molecular Weight	74,267 Da
NCBI Official Full Name	bromodomain-containing protein 7 isoform 1
NCBI Official Synonym Full Names	bromodomain containing 7
NCBI Official Symbol	BRD7
NCBI Official Synonym Symbols	BP75; NAG4; CELTIX1
NCBI Protein Information	bromodomain-containing protein 7
UniProt Protein Name	Bromodomain-containing protein 7
UniProt Gene Name	BRD7
UniProt Synonym Gene Names	BP75; CELTIX1

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/brd7-antibody-western-blot-immunohistochemistry-elisa/124637>