Datasheet for ABIN6971459

anti-BRD3 antibody (C-Term)

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3 Images

Overview

Quantity:	100 µL
Target:	BRD3
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ChIP DNA-Sequencing (ChIP-seq), Chromatin Immunoprecipitation (ChIP), Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Product Details

Immunogen:	This antibody was raised against a peptide within the C-terminal region of mouse BRD3.
Isotype:	IgG
Characteristics:	BRD3 (Bromodomain Containing 3) is a member of the mammalian BET (Bromodomain Extra Terminal) family of proteins, binds hyperacetylated chromatin and has been reported to interact with acetylated Histone H4K5, Histone H4K12 and Histone H3K14. It plays a role in the regulation of transcription, probably by chromatin remodeling and interaction with transcription factors. Regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (By similarity). Regulates transcription of the CCND1 gene. BRD3 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq and Western blot, it has been shown to react with Human and Mouse samples.
Purification:	Affinity Purified

Target Details

Target:	BRD3
Alternative Name:	BRD3 (BRD3 Products)
Molecular Weight:	100 kDa
NCBI Accession:	NP_001107046
Pathways:	Chromatin Binding

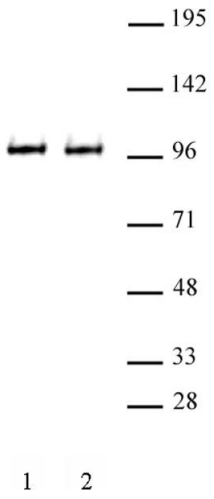
Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

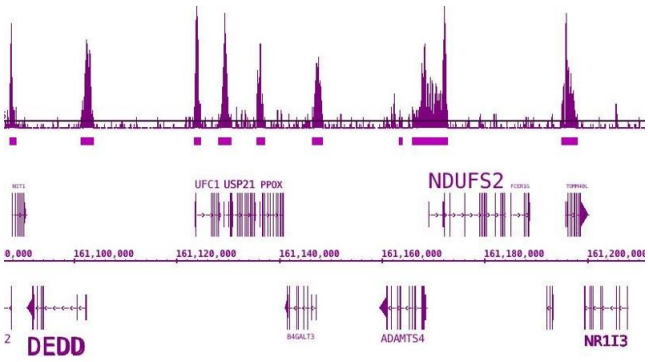
Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.

Images



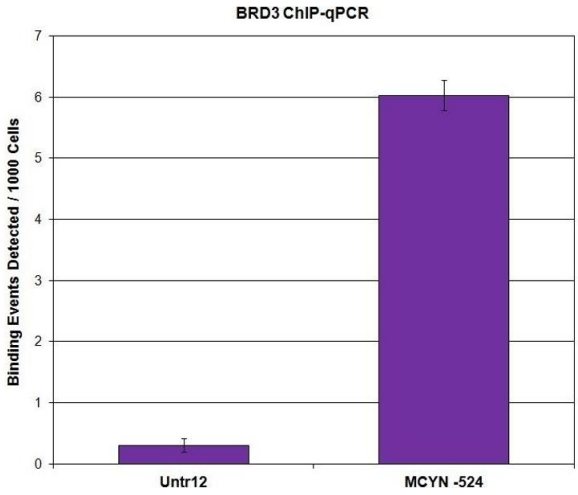
Western Blotting

Image 1. BRD3 antibody (pAb) tested by Western blot. Detection of BRD3 by Western blot analysis. Lane 1: Whole cell extract of HeLa cells (20 µg). Lane 2: Whole cell extract of NIH-3T3 cells. Both probed with BRD3 antibody (pAb) at a 1:500 dilution.



ChIP DNA-Sequencing

Image 2. BRD3 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 µg of chromatin from human H526 cells and 10 µL of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 16 million sequence tags were mapped to show the expected promoter localization.



Chromatin Immunoprecipitation

Image 3. BRD3 antibody (pAb) tested by ChIP. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 µg of chromatin from human H526 cells and 10 µL BRD3 antibody. ChIP DNA was used in qPCR with the control primer or gene-specific primer as indicated. Data are presented as Binding Events Detected per 1000 Cells using Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.