

BRD1 (T-14): sc-102352

BACKGROUND

BRD1 (bromodomain-containing protein 1, Peregrin-like protein) is a 1,058 amino acid protein that is encoded by the human gene BRD1 and shares homology to Peregrin, a protein thought to function as a transcription factor. BRD1, like Peregrin, is a nuclear protein that contains one bromodomain, one PHD-type zinc finger and one PWWP domain. The zinc finger and leucine zipper domains of Peregrin and BRD1 have significant homology to those of AF-10 and MLLT6, two proteins that are involved in various acute leukemias. This suggests a possible role of BRD1 in the development of leukemia. Additionally, the chromosomal region (22q12-13) containing BRD1 may contain one or more susceptibility genes for schizophrenia (SZ) and bipolar affective disorder (BPD), implicating BRD1 in the pathogenesis of these mental illnesses.

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CHROMOSOMAL LOCATION

Genetic locus: BRD1 (human) mapping to 22q13.33; Brd1 (mouse) mapping to 15 E3.

SOURCE

BRD1 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BRD1 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102352 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BRD1 (T-14) is recommended for detection of BRD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other BRD family members.

Suitable for use as control antibody for BRD1 siRNA (h): sc-72663, BRD1 siRNA (m): sc-141739, BRD1 shRNA Plasmid (h): sc-72663-SH, BRD1 shRNA Plasmid (m): sc-141739-SH, BRD1 shRNA (h) Lentiviral Particles: sc-72663-V and BRD1 shRNA (m) Lentiviral Particles: sc-141739-V.

Molecular Weight of BRD1: 120 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.