SANTA CRUZ BIOTECHNOLOGY, INC.

BRD2 (K-12): sc-46806

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The bromodomain-containing proteins include BRD2, BRD3, BRD4 and BRDT. BRD2 (RING3 protein) is a mitogen-activated nuclear protein whose gene is located in the human MHC II region, suggesting its relation to HLA-associated diseases. The gene encoding BRD3 (RING3-like protein) contains two bromo domains and the gene encoding for the protein maps to chromosome 9q34. BRD4 (HUNK1 protein) is a nuclear protein involved in the regulation of chromosomal dynamics during mitosis. The testis-specific bromodomain protein BRDT contains a PEST sequence, indicating that it undergoes rapid intracellular degradation. The bromodomain-containing proteins proteins are ubiquitously expressed.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BRD2 (human) mapping to 6p21.32; Brd2 (mouse) mapping to 17 B1.

SOURCE

BRD2 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BRD2 of human origin.

RESEARCH USE

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

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-46806 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BRD2 (K-12) is recommended for detection of BRD2 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).

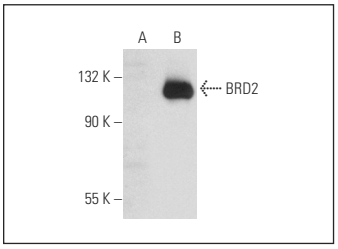
BRD2 (K-12) is also recommended for detection of BRD2 in additional species, including porcine.

Suitable for use as control antibody for BRD2 siRNA (h): sc-60282, BRD2 siRNA (m): sc-60283, BRD2 siRNA (r): sc-270005, BRD2 shRNA Plasmid (h): sc-60282-SH, BRD2 shRNA Plasmid (m): sc-60283-SH, BRD2 shRNA Plasmid (r): sc-270005-SH, BRD2 shRNA (h) Lentiviral Particles: sc-60282-V, BRD2 shRNA (m) Lentiviral Particles: sc-60283-V and BRD2 shRNA (r) Lentiviral Particles: sc-270005-V.

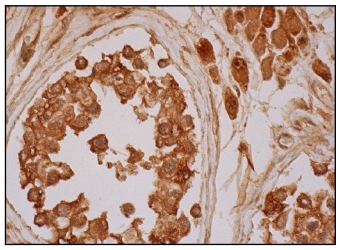
Molecular Weight of BRD2: 88 kDa.

Positive Controls: BRD2 (h): 293T Lysate: sc-117289, A-375 cell lysate: sc-3811 or HeLa nuclear extract: sc-2120.

DATA



BRD2 (K-12): sc-46806. Western blot analysis of BRD2 expression in non-transfected: sc-117752 (**A**) and human BRD2 transfected: sc-117289 (**B**) 293T whole cell lysates.



BRD2 (K-12): sc-46806. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic, membrane and nuclear staining of cells in seminiferous ducts and cytoplasmic and nuclear staining of Leydig cells.

STORAGE

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