

**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 bromodomains and 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 are ubiquitously expressed.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

BRD2 (G-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1-22 at the N-terminus of BRD2 of human origin.

**PRODUCT**

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

BRD2 (G-4) is available conjugated to agarose (sc-393720 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393720 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393720 PE), fluorescein (sc-393720 FITC), Alexa Fluor® 488 (sc-393720 AF488), Alexa Fluor® 546 (sc-393720 AF546), Alexa Fluor® 594 (sc-393720 AF594) or Alexa Fluor® 647 (sc-393720 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393720 AF680) or Alexa Fluor® 790 (sc-393720 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393720 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**RESEARCH USE**

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

**APPLICATIONS**

BRD2 (G-4) is recommended for detection of BRD2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50:1:500), immunohistochemistry (including paraffin-embedded sections) (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 (G-4) is also recommended for detection of BRD2 in additional species, including equine and bovine.

**STORAGE**

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

**PROTOCOLS**

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

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