



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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- Trockeneiszuschlag
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# BRD3 (m): 293T Lysate: sc-126513

## 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 the gene encoding for the protein maps to chromosome 9q34.2. 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

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3. Shang, E., Salazar, G., Crowley, T.E., Wang, X., Lopez, R.A., Wang, X. and Wolgemuth, D.J. 2004. Identification of unique, differentiation stage-specific patterns of expression of the bromodomain-containing genes BRD2, BRD3, BRD4, and BRDT in the mouse testis. *Gene Expr. Patterns* 4: 513-519.
4. Boyer, A., Lussier, J.G., Sinclair, A.H., McClive, P.J. and Silversides, D.W. 2004. Pre-sertoli specific gene expression profiling reveals differential expression of Ppt1 and BRD3 genes within the mouse genital ridge at the time of sex determination. *Biol. Reprod.* 71: 820-827.
5. Trousdale, R.K. and Wolgemuth, D.J. 2004. Bromodomain containing 2 (BRD2) is expressed in distinct patterns during ovarian folliculogenesis independent of FSH or GDF-9 action. *Mol. Reprod. Dev.* 68: 261-268.
6. Crowley, T., Brunori, M., Rhee, K., Wang, X. and Wolgemuth, D.J. 2004. Change in nuclear-cytoplasmic localization of a double-bromodomain protein during proliferation and differentiation of mouse spinal cord and dorsal root ganglia. *Brain Res. Dev. Brain Res.* 149: 93-101.
7. Kanno, T., Kanno, Y., Siegel, R.M., Jang, M.K., Lenardo, M.J. and Ozato, K. 2004. Selective recognition of acetylated histones by bromodomain proteins visualized in living cells. *Mol. Cell* 13: 33-43.
8. Sinha, A., Faller, D.V. and Denis, G.V. 2005. Bromodomain analysis of BRD2-dependent transcriptional activation of cyclin A1. *Biochem. J.* 387: 257-269.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## CHROMOSOMAL LOCATION

Genetic locus: Brd3 (mouse) mapping to 2 A3.

## PRODUCT

BRD3 (m): 293T Lysate represents a lysate of mouse BRD3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

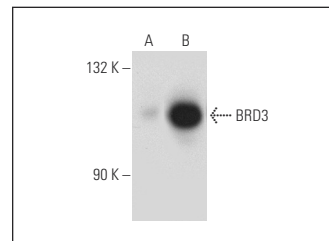
## APPLICATIONS

BRD3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BRD3 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

BRD3 (2088C3a): sc-81202 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse BRD3 expression in BRD3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## DATA



BRD3 (2088C3a): sc-81202. Western blot analysis of BRD3 expression in non-transfected: sc-117752 (A) and mouse BRD3 transfected: sc-126513 (B) 293T whole cell lysates.

## RESEARCH USE

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