
anti-Brm

Cat #: HM1043
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Brm is highly similar to the brhma protein of *Drosophila*. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. Brm is associated with glucocorticoid-receptor mediated transcription, as well as estrogen receptor and retinoic acid receptor mediated transcriptional activation.

SPECIFICITY

This antibody specifically reacts with Brm of human origin. No cross-reactivity with Brg-1.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A synthetic peptide derived from C-terminus of human Brm protein.

STORAGE

This antibody is stable for 24 months when stored at 2-8°C.

REFERENCE

1. Muchardt,C. and Yaniv,M. 1993. A human homologue of *Saccharomyces cerevisiae* SNF2/SWI2 and *Drosophila* brm genes potentiates transcriptional activation by the glucocorticoid receptor. *EMBO J.* 12, 4279-4290.
2. de la Serna,I.L., Carlson,K.A. and Imbalzano,A.N. 2001. Mammalian SWI/SNF complexes promote MyoD-mediated muscle differentiation. *Nat. Genet.* 27: 187-190
3. Strobeck,M.W., Reisman,D.N., Gunawardena,R.W., Betz,B.L., Angus,S.P., Knudsen,K.E., Kowalik,T.F., Weissman,B.E. and Knudsen,E.S. 2002. Compensation of BRG-1 function by Brm: insight into the role of the core SWI-SNF subunits in retinoblastoma tumor suppressor signaling. *J. Biol. Chem.* 277, 4782-4789.

4. Reisman,D.N., Sciarrotta,J., Wang,W., Funkhouser,W.K. and Weissman,B.E. 2003. Loss of BRG1/BRM in human lung cancer cell lines and primary lung cancers: correlation with poor prognosis. *Cancer Res.* 63, 560-566.

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Web: www.hypromatrix.com