Technical Data Sheet

Purified Mouse Anti-Brm

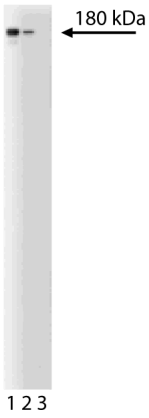
Product Information

Material Number:	**610389**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	24/BRM
Immunogen:	Human Brm aa. 1400-1586
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog, Chicken
Target MW:	180 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

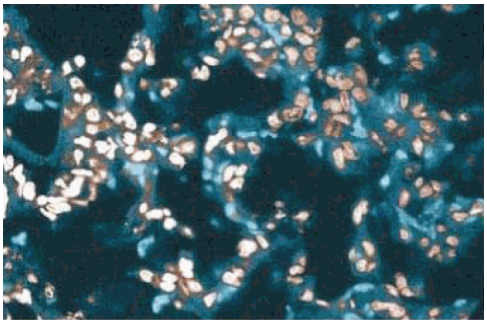
Description

Several of the *SNF* and *SWI* genes of *Saccharomyces cerevisiae* encode proteins that are involved in the regulation of transcriptional activation. One of these proteins, SNF2/SWI2, has both *Drosophila* and mammalian homologues, designated *brm*. The human Brm protein has been reported to be a 180 kDa nuclear factor that acts as a transcriptional activator when fused to a heterologus DNA binding domain. Transfected Brm, expressed in cells lacking endogenous protein, can cooperate with the glucocorticoid receptor (GR) in transcriptional activation. The cooperation between Brm and GR requires the DNA binding domain of GR and the helicase domain and the P/Q-charged domain of Brm. However, Brm does not affect on several other transcription factors. The retinoblastoma protein, Rb, stimulates the transcription of a number of genes. Like Brm, Rb up-regulates glucocorticoid-receptor-mediated transcription. Brm and Rb interact *in vitro* and *in vivo*, requiring the Rb-pocket domain and the consensus Rb-binding motif of Brm.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Brm on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2.2). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-Brm antibody.*



Immunofluorescence staining of a rabbit lung section.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development
Immunofluorescence	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs (Multiple Adsorption)	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Muchardt C, Yaniv M. A human homologue of Saccharomyces cerevisiae SNF2/SWI2 and Drosophila brm genes potentiates transcriptional activation by the glucocorticoid receptor. *EMBO J.* 1993; 12(11):4279-4290.(Biology)

Singh P, Coe J, Hong W. A role for retinoblastoma protein in potentiating transcriptional activation by the glucocorticoid receptor. *Nature.* 1995; 374(6522):562-565.(Biology)

Wong AK, Shanahan F, Chen Y, et al. BRG1, a component of the SWI-SNF complex, is mutated in multiple human tumor cell lines. *Cancer Res.* 2000; 60(21):6171-6177.(Biology: Western blot)

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