

Datasheet for ABIN967938

## anti-SMARCA2 antibody (AA 1400-1586)

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### Overview

Quantity:	50 µg
Target:	SMARCA2
Binding Specificity:	AA 1400-1586
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SMARCA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

### Product Details

Immunogen:	Human Brm aa. 1400-1586
Clone:	24-BRM
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>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.</li></ol>

## Product Details

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**Purification:** The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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**Target:** SMARCA2

**Alternative Name:** Brm ([SMARCA2 Products](#))

**Background:** 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 heterologous 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.

**Molecular Weight:** 180 kDa

## Application Details

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**Comment:** Related Products: ABIN968535, ABIN967389

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 250 µg/mL

**Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

## Publications

Product cited in: Wong, Shanahan, Chen, Lian, Ha, Hendricks, Ghaffari, Iliev, Penn, Woodland, Smith, Salada, Carillo, Laity, Gupte, Swedlund, Tavgian, Teng, Lees: "BRG1, a component of the SWI-SNF complex, is mutated in multiple human tumor cell lines." in: **Cancer research**, Vol. 60, Issue 21, pp. 6171-7, (2000) ([PubMed](#)).

Singh, Coe, Hong: "A role for retinoblastoma protein in potentiating transcriptional activation by the glucocorticoid receptor." in: **Nature**, Vol. 374, Issue 6522, pp. 562-5, (1995) ([PubMed](#)).

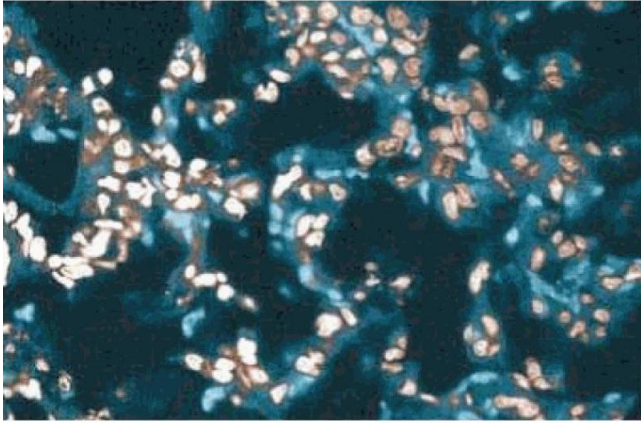
Muchardt, Yaniv: "A human homologue of *Saccharomyces cerevisiae* SNF2/SWI2 and *Drosophila* brm genes potentiates transcriptional activation by the glucocorticoid receptor." in: **The EMBO journal**, Vol. 12, Issue 11, pp. 4279-90, (1993) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** 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

**Image 2.** Immunofluorescence staining of a rabbit lung section.