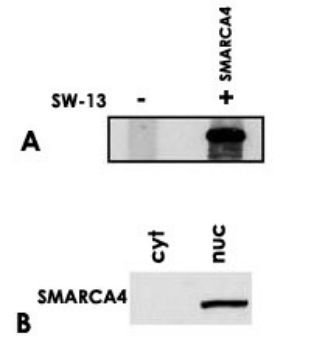
SMARCA4 monoclonal antibody, clone BRG-01

Catalog # MAB6460 Size 100 ug

Applications



Western Blot (Transfected lysate)

Immunostaining of SMARCA4 by SMARCA4 monoclonal antibody, clone BRG-01 (Cat # MAB6460).
A - SMARCA4-negative SW-13 cells were transfected with SMARCA4-expression plasmid and analysed by Western blotting for SMARCA4 expression.
B - HEK293 cytoplasmic (cyt) and nuclear (nuc) lysates were analysed by Western blotting for SMARCA4 presence.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant SMARCA4.
Immunogen	Recombinant GST fusion protein corresponding to C-terminus 242 amino acids of human SMARCA 4.
Host	Mouse
Theoretical MW (kDa)	205
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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Gene Info — SMARCA4

Entrez GeneID	6597
Gene Name	SMARCA4
Gene Alias	BAF190, BRG1, FLJ39786, SNF2, SNF2-BETA, SNF2L4, SNF2LB, SWI2, hSNF2b
Gene Description	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
Omim ID	603254
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the SWI/SNF family of proteins and is similar to the brahma 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. In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	ATP-dependent helicase SMARCA4|BRM/SWI2-related gene 1|SNF2-like 4|SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a4|brahma protein-like 1|global transcription activator homologous sequence|homeotic gene regulator|mitotic growth

Publication Reference

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- Screening of organoids derived from patients with breast cancer implicates the repressor NCOR2 in cytotoxic stress response and antitumor immunity.

  Kelvin K Tsai, Shenq-Shyang Huang, Jason J Northey, Wen-Ying Liao, Chung-Chi Hsu, Li-Hsin Cheng, Michael E Werner, Chih-Pin Chuu, Chandrima Chatterjee, Jonathon N Lakins, Valerie M Weaver

  Nat Cancer 2022 6; 3(6):734-752.

- The BRG1 transcriptional coregulator.

  Trotter KW, Archer TK.

  Nuclear Receptor Signaling 2008 Feb; 6:e004.

- The chromatin-remodeling enzyme BRG1 plays an essential role in primitive erythropoiesis and vascular development.

  Griffin CT, Brennan J, Magnuson T.

  Development 2008 Feb; 135(3):493.

  Application: ChIP, Mouse, Mouse erythrocytes

- Brg1 chromatin remodeling factor is involved in cell growth arrest, apoptosis and senescence of rat mesenchymal stem cells.

  Napolitano MA, Cipollaro M, Cascino A, Melone MA, Giordano A, Galderisi U.

  Journal of Cell Science 2007 Aug; 120(Pt 16):2904.

  Application: WB-Ce, Rat, Mesenchymal stem cells

Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema

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