



Brg-1 Monoclonal Antibody

Catalog No	YP-mAb-01571
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SMARCA4
Immunogen	The antiserum was produced against synthesized peptide derived from human Brg-1. AA range:1565-1614
Specificity	Brg-1 Monoclonal Antibody detects endogenous levels of Brg-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ATP dependent helicase SMARCA4;BAF190;BAF190A;BRG1;BRG1 associated factor 190A;hSNF2b;Protein brahma homolog 1;Protein BRG 1;SMARCA4; SMARCA4/BRG1;SNF2;SNF2 BETA;SNF2B;SNF2L4;SNF2LB;SWI2; Transcription activator BRG1;ATP-dependent helicase SMARCA4;BRG1-associated factor 190A;Mitotic growth and transcription activator;Protein BRG-1; SNF2-beta;SWI/S
Observed Band	200kD
Calculated Molecular Weight	200kD
Cell Pathway	Nucleus . Colocalizes with long non-coding RNA Evf2 in nuclear RNA clouds. .
Tissue Specificity	Colocalizes with ZEB1 in E-cadherin-negative cells from established lines, and stroma of normal colon as well as in de-differentiated epithelial cells at the invasion front of colorectal carcinomas (at protein level).
Function	function:Transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene.,



PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the SNF2/RAD54 helicase family.,similarity:Contains 1 bromo domain.,similarity:Contains 1 helicase ATP-binding domain., similarity:Contains 1 helicase C-terminal domain.,similarity:Contains 1 HSA domain.,subunit:Interacts with NR3C1, PGR, SMARD1, TOPBP1 and ZMIM2/ ZIMP7. Component of the BAF complex, which includes at least actin (ACTB), ARID1A, ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57, SMARC

Background

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. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Brg-1 Monoclonal Antibody