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Product datasheet for TA327280

BRG1 (SMARCA4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50 - 1:200;IP 1:20 - 1:50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide of human SMARCA4
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	185 kDa
Gene Name:	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
Database Link:	NP_001122321 Entrez Gene 20586 MouseEntrez Gene 171379 RatEntrez Gene 6597 Human P51532

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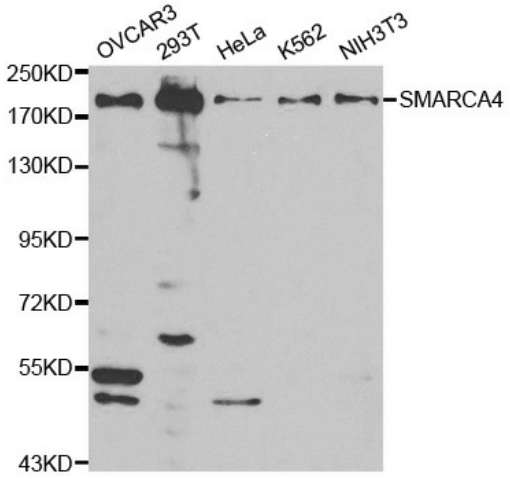
Background: The modulation of chromatin structure is an essential component in the regulation of transcriptional activation and repression. Modifications can be made by at least two evolutionarily conserved strategies, through the disruption of histone-DNA contacts by ATP-dependent chromatin remodelers, or by histone tail modifications including methylation and acetylation. One of the four classes of ATP-dependent histone remodelers is the SWI/SNF complex, the central catalytic subunit of which is Brg1 or the highly related protein hBRM . This SWI/SNF complex contains varying subunits but its association with either Brg1 or hBRM remains constant . SWI/SNF complexes have been shown to regulate gene activation, cell growth, the cell cycle and differentiation . Brg1/hBRM have been shown to regulate transcription through enhancing transcriptional activation of glucocorticoid receptors . Although usually associated with transcriptional activation, Brg1/hBRM have also been found in complexes associated with transcriptional repression including with HDACs, Rb and Tif1β . Brg1/hBRM plays a vital role in the regulation of gene transcription during early mammalian embryogenesis. In addition, Brg1/hBRM also play a role as a tumor suppressors and Brg1 is mutated in several tumor cell lines.

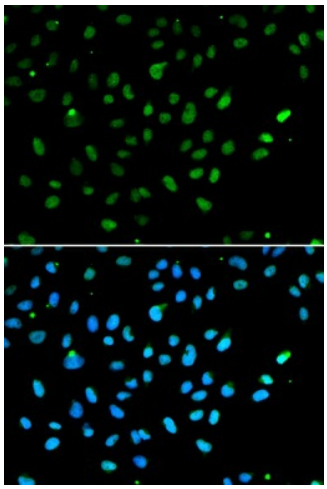
Synonyms: BAF190; BAF190A; BRG1; CSS4; hSNF2b; MRD16; RTPS2; SNF2; SNF2L4; SNF2LB; SWI2

Protein Families: Druggable Genome, Transcription Factors

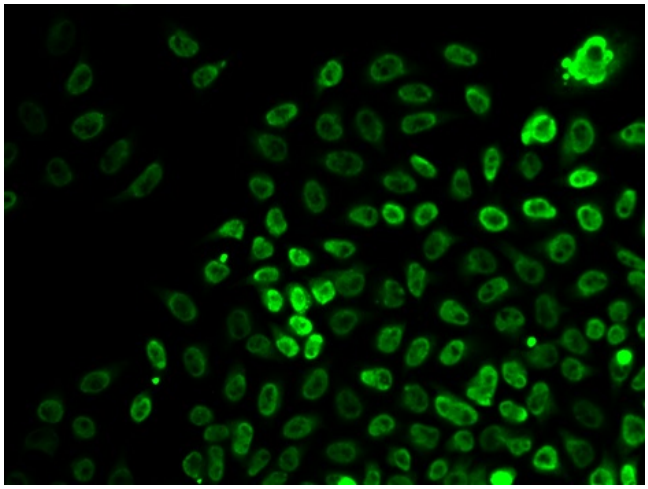
Product images:



Western blot analysis of extracts of various cell lines, using SMARCA4 antibody.



Immunofluorescence analysis of A549 cell using SMARCA4 antibody. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cell using SMARCA4 antibody.