Store at -200

Brg1 (P680) Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 220	Source: Rabbit	UniProt ID: #P51532	Entrez-Gene Id 6597	
Product Usage Information	An	plication			Dilution		
	•	stern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity Brg1	Brg1 (P680) Antibody detects endogenous levels of Brg1 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Pro680 of human Brg1. Antibodies are purified by Protein A and peptide affinity chromatography.					
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 (1). This SWI/SNF complex contains varying subunits but its association with either Brg1 or hBRM remains constant (1). SWI/SNF complexes have been shown to regulate gene activation, cell growth, the cell cycle, and differentiation (1). Brg1/hBRM have been shown to regulate transcription					

Background References

- 1. Trotter, K.W. and Archer, T.K. (2008) Nucl Recept Signal 6, e004.
- 2. Trotter, K.W. and Archer, T.K. (2007) Mol Cell Endocrinol 265-266, 162-7.

plays a role as a tumor suppressor and Brg1 is mutated in several tumor cell lines (6-8).

- 3. Sif, S. et al. (2001) Genes Dev 15, 603-18.
- 4. Zhang, H.S. et al. (2000) Cell 101, 79-89.
- 5. Underhill, C. et al. (2000) J Biol Chem 275, 40463-70.
- 6. Magnani, L. and Cabot, R.A. (2009) Reproduction 137, 23-33.
- 7. Medina, P.P. et al. (2008) Epigenetics 3, 64-8.
- 8. Medina, P.P. et al. (2008) Hum Mutat 29, 617-22.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

through enhancing transcriptional activation of glucocorticoid receptors (2). Although usually associated with transcriptional activation, Brg1/hBRM have also been found in complexes associated with transcriptional repression, including HDACs, Rb, and Tif1β (3-5). Brg1/hBRM plays a vital role in the regulation of gene transcription during early mammalian embryogenesis. In addition, Brg1/hBRM also

Applications Key WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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