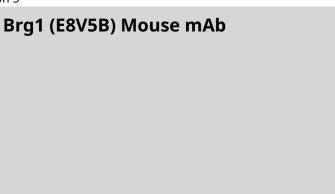
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| Applications:<br>W, IHC-P                                       | <b>Reactivity:</b><br>H M R Mk | <b>Sensitivity:</b><br>Endogenous   | <b>MW (kDa):</b><br>220 | Source/Isotype:<br>Mouse IgG1 | <b>UniProt ID:</b><br>#P51532      | Entrez-Gene Id:<br>6597 |  |  |
|---|--------------------------------|---|-------------------------|-------------------------------|------------------------------------|-------------------------|--|--|
| Product Usage<br>Information                                    |                                | <b>Application</b><br>Western Blotting<br>Immunohistochemistry (Paraffin)   |                         |                               | <b>Dilution</b><br>1:1000<br>1:800 |                         |  |  |
| Storage   |                                | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.  |                         |                               |                                    | rol and less than       |  |  |
|   |                                | For a carrier free (BSA and azide free) version of this product see product #98822.   |                         |                               |                                    |                         |  |  |
| Specificity/Sensitivity   |                                | Brg1 (E8V5B) Mouse mAb recognizes endogenous levels of total Brg1 protein. This antibody does not cross-react with BRM protein.   |                         |                               |                                    |                         |  |  |
| Source / Purification   |                                | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro57 of human Brg1 protein.   |                         |                               |                                    |                         |  |  |
| 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 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 Tif1 $\beta$ (3-5). Brg1/hBRM plays a vital role in the regulation of gene transcription during early mammalian embryogenesis. In addition, Brg1/hBRM also plays a role as a tumor suppressor and Brg1 is mutated in several tumor cell lines (6-8). |                         |                               |                                    |                         |  |  |
| Background Re   | ferences                       | <ol> <li>Trotter, K.W. and Archer, T.K. (2008) Nucl Recept Signal 6, e004.</li> <li>Trotter, K.W. and Archer, T.K. (2007) Mol Cell Endocrinol 265-266, 162-7.</li> <li>Sif, S. et al. (2001) Genes Dev 15, 603-18.</li> <li>Zhang, H.S. et al. (2000) Cell 101, 79-89.</li> <li>Underhill, C. et al. (2000) J Biol Chem 275, 40463-70.</li> <li>Magnani, L. and Cabot, R.A. (2009) Reproduction 137, 23-33.</li> <li>Medina, P.P. et al. (2008) Epigenetics 3, 64-8.</li> <li>Medina, P.P. et al. (2008) Hum Mutat 29, 617-22.</li> </ol>   |                         |                               |                                    |                         |  |  |
| Species Reactiv   | ity                            | Species reactivity is determined by testing in at least one approved application (e.g., western blot).  |                         |                               |                                    |                         |  |  |
| Western Blot B  | uffer                          | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X<br>TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.   |                         |                               |                                    |                         |  |  |
| Applications Ke   | ey (                           | W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)  |                         |                               |                                    |                         |  |  |
| Cross-Reactivit   | у Кеу                          | H: Human M: Mouse R: Rat Mk: Monkey   |                         |                               |                                    |                         |  |  |
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