#91894

PBRM1/BAF180 (D3F7O) Rabbit mAb



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| Applications: W, IP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 200 | Source/Isotype: Rabbit IgG | UniProt ID: #Q86U86 | Entrez-Gene Id: 55193 |
|------------------------------|--------------------------------|--|--|---|---|---|
| Product Usage Information | 2 | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 1:50 | a la cal la cal da ca |
| 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. | | | | |
| Specificity/Ser | nsitivity | PBRM1 (D3F7O) Rabbit mAb recognizes endogenous levels of total PBRM1 protein. | | | | |
| Source / Purifi | cation | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu207 of human PBRM1 protein. | | | | |
| Background | | ATP-dependent chromatin remodeling complexes play an essential role in the regulation of various nuclear processes, such as gene expression, DNA replication, and repair (1,2). The SWI/SNF chromatin remodeling complex consists of more than 10 subunits with a single molecule of the ATPase catalytic subunit BRM or BRG1, but not both. The activities of these two subunits drive the disruption of histone-DNA contacts that lead to changes in accessibility of crucial regulatory elements within chromatin (2-5). The BRM/BRG1 containing SWI/SNF complexes are recruited to target promoters by transcription factors, such as nuclear receptors, p53, RB, and BRCA1 to regulate gene activation, cell growth, the cell cycle, and differentiation processes (1,6-9). | | | | |
| | | mitotic chromatin (10, driven gene activation the second-most muta shown to be involved i PBRM1/BAF180 is phos | 11). PBAF is involve (12,13). <i>PBRM1/B/</i> ted gene in renal o n breast cancer, ar sphorylated at Ser | the SWI/SNF complex PBA and in nuclear receptor-m AF180 has been shown to carcinomas (14). Mutatio and low expression relates P48 by ATM during DNA and double-stranded brea | ediated transcriptio b be a potent tumor ns of <i>PBRM1/BAF18</i> to poorer prognos damage, which is in | n and retinoic acid suppressor, as it is 30 have also been is (15,16). |
| Background R | eferences | 3. Eberharter, A. and B 4. Bowman, G.D. (2010 5. Gangaraju, V.K. and | z, W. (2002) Annu I ecker, P.B. (2004) J) Curr Opin Struct Bartholomew, B. (2 btree, G.R. (2010) . 008) Front Biosci 1 B) J Cell Biochem 1 Cell Physiol 207, 30 Mol Cell Biol 20, 38 Proc Natl Acad Sci 01) Nature 414, 92 4) Genes Dev 18, 3 1) Nature 469, 539 Cancer Res 68, 16 Int J Clin Exp Patho | Rev Biochem 71, 247-73. Cell Sci 117, 3707-11. Biol 20, 73-81. 2007) Mutat Res 618, 3-1 Annu Rev Cell Dev Biol 20 3, 5522-32. 34, 1580-6. 3-14. 879-88. U S A 97, 13015-20. 4-8. 106-16. -42. 67-74. bl 8, 9307-13. | | |
| Species Reacti | vity | Species reactivity is de | termined by testin | g in at least one approve | ed application (e.g., | western blot). |
| Western Blot E | Buffer | IMPORTANT: For weste TBS, 0.1% Tween® 20 a | | membrane with diluted shaking, overnight. | primary antibody ir | ז 5% w/v BSA, 1X |
| Applications K | ey | W: Western Blotting IP | : Immunoprecipita | ation | | |

| Cross-Reactivity Key | H: Human M: Mouse R: Rat Mk: Monkey |
|------------------------|---|
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