

ARID2 (D8D8U) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #Q68CP9	Entrez-Gene Id: 196528
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
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/Sensitivity		ARID2 (D8D8U) Rabbit mAb recognizes endogenous levels of total ARID2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val891 of human ARID2 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).				
		ARID2 is a unique member of the SWI/SNF complex PBAF, which binds to kinetochores in mitotic chromatin (10,11). PBAF is involved in nuclear receptor-mediated transcription and retinoic acid driven gene activation (12,13). ARID2 is the targeting subunit of the PBAF complex and critical for complex stability (14). It can also mediate DNA repair of double stranded breaks through interactions with RAD51 (15). ARID2 also has been demonstrated to be a tumor suppressor, and inactivating mutations have been found in various cancer types (16-18).				
Background References		 Ho, L. and Crabtree, G.R. (2010) <i>Nature</i> 463, 474-84. Becker, P.B. and Hörz, W. (2002) <i>Annu Rev Biochem</i> 71, 247-73. Eberharter, A. and Becker, P.B. (2004) <i>J Cell Sci</i> 117, 3707-11. Bowman, G.D. (2010) <i>Curr Opin Struct Biol</i> 20, 73-81. Gangaraju, V.K. and Bartholomew, B. (2007) <i>Mutat Res</i> 618, 3-17. Lessard, J.A. and Crabtree, G.R. (2010) <i>Annu Rev Cell Dev Biol</i> 26, 503-32. Morettini, S. et al. (2008) <i>Front Biosci</i> 13, 5522-32. Wolf, I.M. et al. (2008) <i>J Cell Biochem</i> 104, 1580-6. Simone, C. (2006) <i>J Cell Physiol</i> 207, 309-14. Nie, Z. et al. (2000) <i>Mol Cell Biol</i> 20, 8879-88. Xue, Y. et al. (2000) <i>Proc Natl Acad Sci U S A</i> 97, 13015-20. Lemon, B. et al. <i>Nature</i> 414, 924-8. Wang, Z. et al. (2004) <i>Genes Dev</i> 18, 3106-16. Yan, Z. et al. (2005) <i>Genes Dev</i> 19, 1662-7. de Castro, R.O. et al. (2017) <i>J Biol Chem</i> 292, 8459-8471. Li, M. et al. (2011) <i>Nat Genet</i> 43, 828-9. Hillen, U. et al. (2016) <i>Am J Surg Pathol</i> 40, 1721-1723. Manceau, G. et al. (2013) <i>Int J Cancer</i> 132, 2217-21. 				

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.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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