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ARID5B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17449c

Product Information

Application	WB, E
Primary Accession	Q14865
Other Accession	Q8BM75, Q5ZJ69, E1BLP6, NP_115575.1
Reactivity	Human
Predicted	Bovine, Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37182
Calculated MW	132375
Antigen Region	389-418

Additional Information

Gene ID	84159
Other Names	AT-rich interactive domain-containing protein 5B, ARID domain-containing protein 5B, MRF1-like protein, Modulator recognition factor 2, MRF-2, ARID5B, DESRT, MRF2
Target/Specificity	This ARID5B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 389-418 amino acids from the Central region of human ARID5B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ARID5B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARID5B
Synonyms	DESRT, MRF2

Function	Transcription coactivator that binds to the 5'-AATA[CT]-3' core sequence and plays a key role in adipogenesis and liver development. Acts by forming a complex with phosphorylated PHF2, which mediates demethylation at Lys-336, leading to target the PHF2-ARID5B complex to target promoters, where PHF2 mediates demethylation of dimethylated 'Lys-9' of histone H3 (H3K9me2), followed by transcription activation of target genes. The PHF2-ARID5B complex acts as a coactivator of HNF4A in liver. Required for adipogenesis: regulates triglyceride metabolism in adipocytes by regulating expression of adipogenic genes. Overexpression leads to induction of smooth muscle marker genes, suggesting that it may also act as a regulator of smooth muscle cell differentiation and proliferation. Represses the cytomegalovirus enhancer.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355}.
Tissue Location	Widely expressed, including in liver (at protein level).

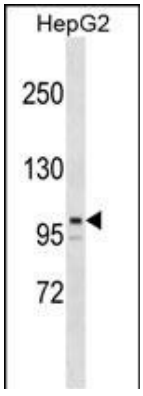
Background

DNA-binding protein that binds to the 5'-AATA[CT]-3' core sequence. Probably acts as a transcription regulator. Represses the cytomegalovirus enhancer. Overexpression leads to induction of smooth muscle marker genes, suggesting that it may act as a regulator of smooth muscle cell differentiation and proliferation. May be involved in lipid stores.

References

Healy, J., et al. Haematologica 95(9):1608-1611(2010)
Yang, W., et al. Leukemia 24(4):894-896(2010)
Prasad, R.B., et al. Blood 115(9):1765-1767(2010)
Papaemmanuil, E., et al. Nat. Genet. 41(9):1006-1010(2009)
Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009)

Images



ARID5B Antibody (Center) (Cat. #AP17449c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ARID5B antibody detected the ARID5B protein (arrow).

Citations

- LncRNA AW112010 Promotes Mitochondrial Biogenesis and Hair Cell Survival: Implications for Age-Related Hearing Loss