

ARID5B Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17449c**Specification**

ARID5B Antibody (Center) - 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 |
| Calculated MW | 132375 |
| Antigen Region | 389-418 |

ARID5B Antibody (Center) - 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

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.

ARID5B Antibody (Center) - 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}.

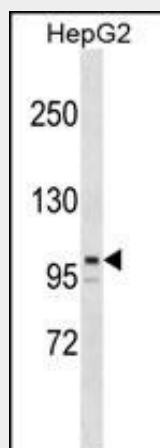
Tissue Location

Widely expressed, including in liver (at protein level).

ARID5B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ARID5B Antibody (Center) - 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).

ARID5B Antibody (Center) - 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.

ARID5B Antibody (Center) - 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)

ARID5B Antibody (Center) - Citations

- [LncRNA AW112010 Promotes Mitochondrial Biogenesis and Hair Cell Survival: Implications for Age-Related Hearing Loss](#)