

# **ARID5B Antibody (Center)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP17449c

## **Specification**

# **ARID5B Antibody (Center) - Product Information**

Application WB,E
Primary Accession 014865

Other Accession <u>Q8BM75</u>, <u>Q5ZI69</u>, <u>E1BLP6</u>, <u>NP 115575.1</u>

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

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.

## **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**

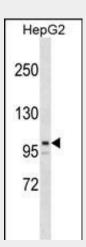
Widely expressed, including in liver (at protein level).

# **ARID5B Antibody (Center) - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

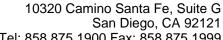
# **ARID5B Antibody (Center) - Images**

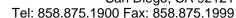


ARID5B Antibody (Center) (Cat. #AP17449c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the ARID5B antibody detected the ARID5B protein (arrow).

### 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