

**ARID5B Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17449c****Specification**

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**ARID5B Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q14865](#)**ARID5B Antibody (Center) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ARID5B Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ARID5B Antibody (Center) Blocking Peptide - Images****ARID5B Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)