



# Anti-ARID5B monoclonal antibody (DCABH-707)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to ARID5B
<b>Antigen Description</b>	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.
<b>Immunogen</b>	Recombinant fragment, corresponding to amino acids 1483-1583 of Human ARID5B with a proprietary tag (XP_084482.3).
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, Sandwich ELISA
<b>Positive Control</b>	Recombinant Human ARID5B Protein.
<b>Format</b>	Liquid
<b>Size</b>	100 µg

<b>Buffer</b>	pH: 7.20; Constituent: 99% PBS
<b>Preservative</b>	None
<b>Storage</b>	store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Ship</b>	Shipped at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ARID5B AT rich interactive domain 5B (MRF1-like) [ Homo sapiens ]</a>
<b>Official Symbol</b>	ARID5B
<b>Synonyms</b>	ARID5B; AT rich interactive domain 5B (MRF1-like); AT-rich interactive domain-containing protein 5B; FLJ21150; MRF2; MRF1-like protein; ARID domain-containing protein 5B; modulator recognition factor 2 (MRF2); DESRT; MRF-2; FLJ41888;
<b>Entrez Gene ID</b>	<a href="#">84159</a>
<b>Protein Refseq</b>	<a href="#">NP_001231567</a>
<b>UniProt ID</b>	<a href="#">Q14865</a>
<b>Chromosome Location</b>	10q11.22
<b>Function</b>	DNA binding; protein binding; contributes_to transcription coactivator activity; transcription regulatory region DNA binding;