


## Product datasheet

# Anti-ARID5B antibody ab118112

### 1 图像

#### 概述

产品名称	Anti-ARID5B抗体
描述	小鼠单克隆抗体to ARID5B
宿主	Mouse
经测试应用	适用于: ELISA, Sandwich ELISA
种属反应性	与反应: Recombinant fragment 预测可用于: Human 
免疫原	Recombinant fragment, corresponding to amino acids 1483-1583 of Human ARID5B with a proprietary tag (XP_084482.3).
阳性对照	Recombinant Human ARID5B Protein.

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.20 Constituent: 99% PBS
纯度	Protein A purified
克隆	单克隆
同种型	IgG2a
轻链类型	kappa

#### 应用

Our [Abpromise guarantee](#) covers the use of **ab118112** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ELISA		Use at an assay dependent dilution.

应用	Ab评论	说明
Sandwich ELISA		Use a concentration of 10 µg/ml.

## 靶标

### 功能

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.

### 组织特异性

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

### 疾病相关

Note=Defects in ARID5B may be a cause of susceptibility to coronary atherosclerosis in the Japanese population.

Defects in ARID5B may be a cause of susceptibility to acute lymphoblastic leukemia (ALL) [MIM:613065]. Note=ALL is a subtype of acute leukemia, a cancer of the white blood cells. ALL is a malignant disease of bone marrow and the most common malignancy diagnosed in children. The malignant cells are lymphoid precursor cells (lymphoblasts) that are arrested in an early stage of development. The lymphoblasts replace the normal marrow elements, resulting in a marked decrease in the production of normal blood cells. Consequently, anemia, thrombocytopenia, and neutropenia occur to varying degrees. The lymphoblasts also proliferate in organs other than the marrow, particularly the liver, spleen, and lymph nodes.

### 序列相似性

Belongs to the ARID5B family.  
Contains 1 ARID domain.

### 结构域

The ARID domain mediates the interaction with DNA.

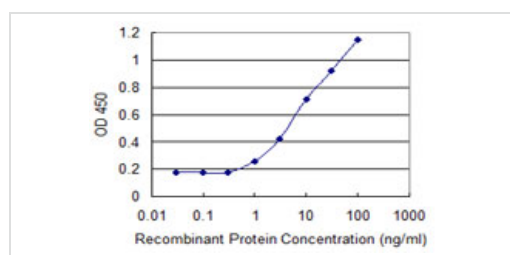
### 翻译后修饰

Methylation at Lys-336 prevents DNA-binding. Demethylation by PHF2 promotes recruitment of the PHF2-ARID5B complex to promoters.

### 细胞定位

Nucleus.

## 图片



Sandwich ELISA - Anti-ARID5B antibody (ab118112)

ab118112 at 10 µg/ml as a capture antibody.

The detection limit for recombinant tagged ARID5B is 0.3 ng/ml.

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