

## ARID1A (PT1031R) PT® Rabbit mAb

CatalogNo: YM8820 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, IP, ELISA

#### MW

- 242kD (Calculated)  
270kD (Observed)

#### Isotype

- IgG, Kappa

### Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal**Clone Number** PT1031R

### Immunogen Information

**Specificity** Endogenous

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## | Target Information

**Gene name** ARID1A BAF250 BAF250A C1orf4 OSA1 SMARCF1

**Protein Name** AT-rich interactive domain-containing protein 1A (ARID domain-containing protein 1A) (B120) (BRG1-associated factor 250) (BAF250) (BRG1-associated factor 250a) (BAF250A) (Osa homolog 1) (hOSA1) (SWI-like protein) (SWI/SNF complex protein p270) (SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin subfamily F member 1) (hELD)

Organism	Gene ID	UniProt ID
Human	<a href="#">8289;</a>	<a href="#">O14497;</a>
Mouse		<a href="#">A2BH40;</a>

**Cellular Localization** Nucleus .

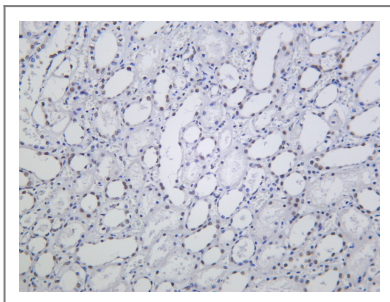
**Tissue specificity** Highly expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon, and PBL, and at a much lower level in heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas.

## Function

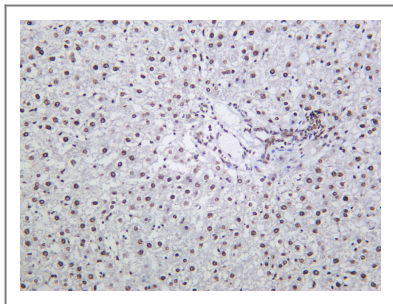
Function:Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Binds DNA non-specifically. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 ARID domain.,subunit:Component of SWI/SNF chromatin remodeling complexes, in some of which it can be mutually exclusive with ARID1B/BAF250B. Component of the BAF (SWI/SNF-A) complex, which includes at least actin (ACTB), ARID1A, ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57, SMARCC1/BAF155, SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C. In muscle cells, the BAF complex also contains DPF3. Component of the SWI/SNF-B (PBAF) complex, at least composed of SMARCA4/BRG1, SMARCB1/BAF47, ACTL6A/BAF53A or ACTL6B/BAF53B, SMARCE1/BAF57, SMARCD1/BAF60A, SMARCD2/BAF60B, perhaps SMARCD3/BAF60C, SMARCC1/BAF155, SMARCC2/BAF170, PB1/BAF180, ARID2/BAF200, ARID1A/BAF250A or ARID1B/BAF250B and actin. Component of the SWI/SNF Brm complex, at least composed of SMARCA2/BRM, SMARCB1/BAF47, ACTL6A/BAF53A or ACTL6B/BAF53B, SMARCE1/BAF57, BAF60 (one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C), SMARCC1/BAF155, SMARCC2/BAF170, ARID1A/BAF250A, SIN3A, HDAC1, HDAC2, and RBAP48. Component of the SWI/SNF complex Brg1(I), at least composed of SMARCA4/BRG1, SMARCB1/BAF47, ACTL6A/BAF53A or ACTL6B/BAF53B, SMARCE1/BAF57, BAF60 (one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C), SMARCC1/BAF155, SMARCC2/BAF170, ARID1A/BAF250A, SIN3A, and probably HDAC2 and RBAP48. Component of the SWI/SNF Brg1(II), at least composed of SMARCA4/BRG1, SMARCB1/BAF47, ACTL6A/BAF53A or ACTL6B/BAF53B, SMARCE1/BAF57, SMARCC1/BAF155, SMARCC2/BAF170, ARID1A/BAF250A and probably HDAC2 and RBAP48. Component of a SWI/SNF-like EPAFa complex, at least composed of SMARCA4/BRG1, SMARCB1/BAF47, ACTL6A/BAF53A, SMARCE1/BAF57, SMARCD1/BAF60A, SMARCC1/BAF155, SMARCC2/BAF170, BAF250A and MLLT1/ENL. Component of a SWI/SNF-like complex containing ARID1A/BAF250A and ARID1B/BAF250B. Interacts through its C-terminus with SMARCA2/BRM and SMARCA4/BRG1. Component of the WINAC complex, at least composed of SMARCA2, SMARCA4, SMARCB1, SMARCC1, SMARCC2, SMARCD1, SMARCE1, ACTL6A, BAZ1B/WSTF, ARID1A, SUPT16H, CHAF1A and TOP2B. Interacts with SMARCC1/BAF155.,tissue specificity:Highly expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon, and PBL, and at a much lower level in heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas.,

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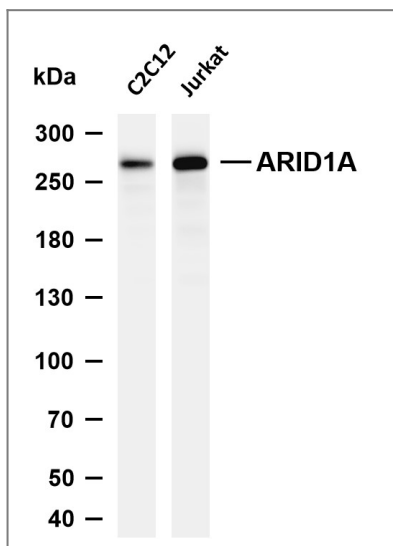
## Validation Data



Human kidney was stained with anti-ARID1A (PT1031R) Rabbit antibody



Rat liver was stained with anti-ARID1A (PT1031R) Rabbit antibody



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-ARID1A (PT1031R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C2C12 Lane 2: Jurkat Predicted band size: 242kDa  
Observed band size: 270kDa

## Contact information

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**ARID1A (PT1031R)**  
**PT® Rabbit mAb**

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