

**Rabbit Anti-ARID1A/BAF250A/NAA10 [MD74R]: RM0462, RM0462RTU7**

**Intended Use:** For Research Use Only

**Description:** ARID1A (AT-rich interactive domain-containing protein 1A), also known as BAF250a, is a recently identified tumor suppressor that is a component of the SWI/SNF chromatin remodeling complex. ARID1A functions by binding AT-rich DNA sequences to regulate gene expression of nucleosome mobilization and chromatin processes. While ARID1A is typically expressed in most normal tissues, it is frequently mutated in a multitude of tumors, including breast, lung, gastric, renal and ovarian cancers. Genomic sequencing revealed that most ARID1A mutations are truncating mutations, and the presence of mutations is highly correlative with loss of ARID1A protein expression by immunohistochemistry. Deficient ARID1A expression was observed in approximately 70% of renal cell carcinomas, 50% of gastric cancers, 40% of clear cell ovarian carcinomas, and 40% of endometrioid carcinomas. Furthermore, loss of ARID1A expression was determined as an independent marker for poor prognosis; tumors were correlated with higher stage and grade, are more likely to be chemoresistant, and associated with shorter progression-free and overall survival rates. ARID1A antibody may be used for identifying ARID1A defect tumors.

**Specifications**

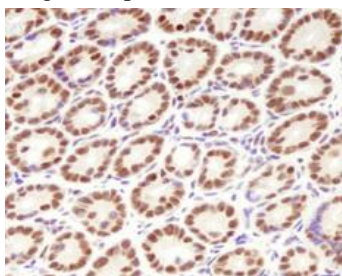
Clone: MD74R  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human, mouse, rat  
 Immunogen: A synthetic peptide to residues surrounding Gly1293 of human ARID1A/BAF250A protein  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
ARID1A/BAF250A/NAA10 Concentrated	RM0462	1 ml
ARID1A/BAF250A/NAA10 Prediluted	RM0462RTU7	7 ml

**IHC Procedure\*:**

Positive Control: Colon  
 Concentrated Dilution: 25-100  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE mouse colon tissue stained with anti-ARID1A using DAB

**References:**

1. Prognostic role and implications of mutation status of tumor suppressor gene ARID1A in cancer: a systematic review and meta-analysis. Luchini C, et al. *Oncotarget*. Nov 17;6(36):39088-97, 2015.
2. ARID1A is a useful marker of malignancy in peritoneal washings for endometrial carcinoma. Nagymanyoki Z, et al. *Cancer Cytopathol*. Apr;123(4):253-7, 2015.

Doc. 100-RM0462

Rev. A