

For Research Use Only

# ARID1A Recombinant antibody

Catalog Number: 83733-3-RR



## Basic Information

<b>Catalog Number:</b> 83733-3-RR	<b>GenBank Accession Number:</b> NM_006015	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 8289	<b>CloneNo.:</b> 240690F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O14497	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:150-1:600
<b>Isotype:</b> IgG	<b>Full Name:</b> AT rich interactive domain 1A (SWI-like)	
<b>Immunogen Catalog Number:</b> AG30749	<b>Calculated MW:</b> 242 kDa	
	<b>Observed MW:</b> 250-260 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, BxPC-3 cells, K-562 cells, HepG2 cells IF/ICC : HeLa cells,
<b>Species Specificity:</b> human	

## Background Information

ARID1A, also named as BAF250, BAF250A, C1orf4, OSA1 and SMARCF1, is involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). It binds DNA non-specifically. It is 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. ARID1A belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The antibody is specific to ARID1A.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

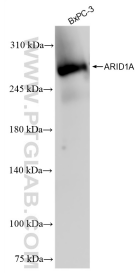
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

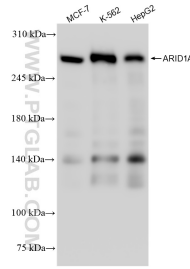
W: [ptgcn.com](http://ptgcn.com)

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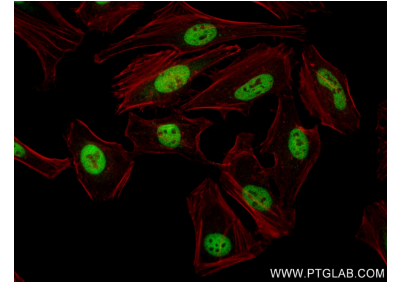
## Selected Validation Data



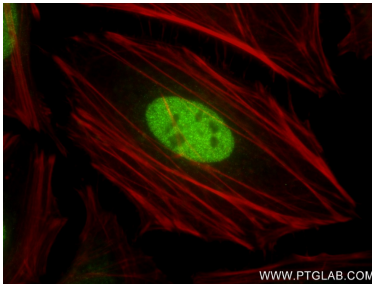
BxPC-3 cells were subjected to SDS PAGE followed by western blot with 83733-3-RR (ARID1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



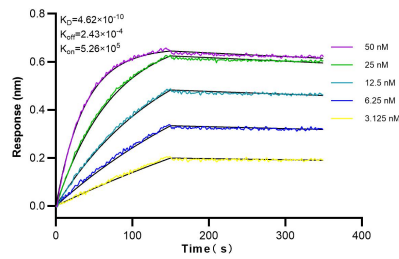
Various lysates were subjected to SDS PAGE followed by western blot with 83733-3-RR (ARID1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ARID1A antibody (83733-3-RR, Clone: 240690F1) at dilution of 1:300 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ARID1A antibody (83733-3-RR, Clone: 240690F1) at dilution of 1:300 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83733-3-RR against Human ARID1A were performed. The affinity constant is 0.462 nM.