

For Research Use Only

# ARID1A Recombinant antibody, PBS Only (Capture)

Catalog Number: 83733-3-PBS



## Basic Information

<b>Catalog Number:</b> 83733-3-PBS	<b>GenBank Accession Number:</b> NM_006015	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8289	<b>CloneNo.:</b> 240690F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O14497	
<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

**Tested Applications:**  
WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

83733-3-PBS targets ARID1A as part of a matched antibody pair:

MP00714-2: 83733-3-PBS capture and 83733-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 -80°C.  
**Storage Buffer:**  
PBS Only

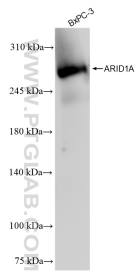
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

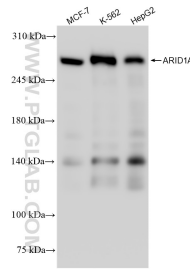
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

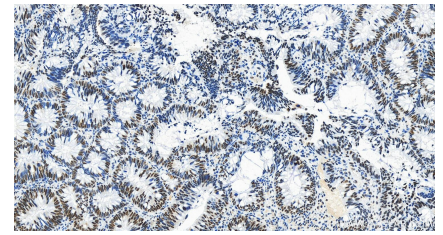
## Selected Validation Data



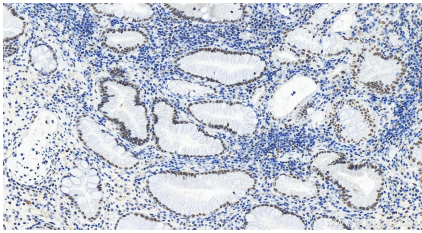
BxPC-3 cells were subjected to SDS PAGE followed by western blot with 83733-3-RR (ARID1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



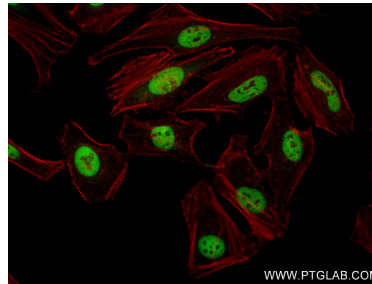
Various lysates were subjected to SDS PAGE followed by western blot with 83733-3-RR (ARID1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



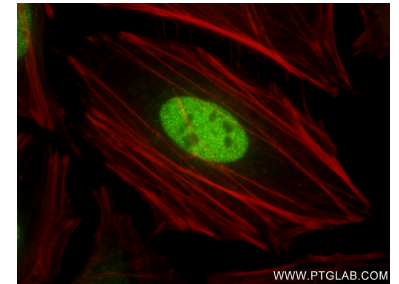
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 83733-3-RR (ARID1A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



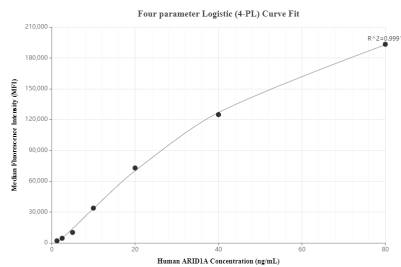
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83733-3-RR (ARID1A antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



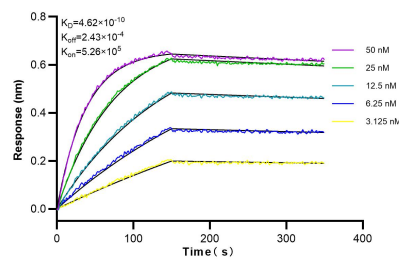
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ARID1A antibody (83733-3-RR, Clone: 240690F1) at dilution of 1:300 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83733-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00714-2, ARID1A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83733-3-PBS. Detection antibody: 83733-2-PBS. Standard: Ag30749. Range: 1.25 -80 ng/mL



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