

For Research Use Only

ARID4A Recombinant antibody, PBS Only (Capture)

Catalog Number: 83489-1-PBS



Basic Information

Catalog Number: 83489-1-PBS	GenBank Accession Number: NM_002892.3	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5926	CloneNo.: 240436A4
Source: Rabbit	UNIPROT ID: P29374	
Isotype: IgG	Full Name: AT rich interactive domain 4A (RBP1-like)	
Immunogen Catalog Number: AG33114	Calculated MW: 143 kDa	
	Observed MW: 205 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human

Product Information

83489-1-PBS targets ARID4A as part of a matched antibody pair.

MP00489-1: 83489-1-PBS capture and 83489-4-PBS detection (validated in Cytometric bead array)

MP00489-3: 83489-1-PBS capture and 83489-2-PBS detection (validated in Sandwich ELISA)

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

ARID4A (AT-rich interaction domain 4A, also known as retinoblastoma-binding protein 1, RBBP1/RBP1) is a retinoblastoma (RB)-binding protein. ARID1A is an important subunit of the switching defective/sucrose nonfermenting (SWI/SNF) chromatin remodeling complex.

Storage

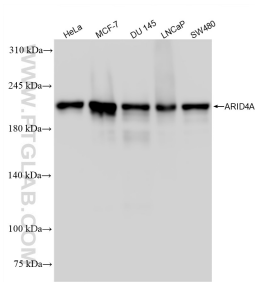
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

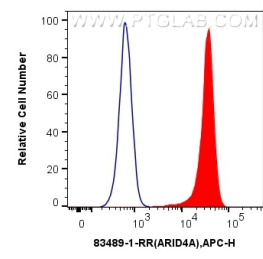
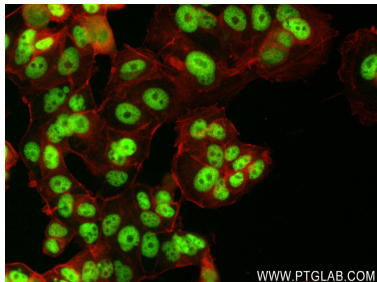
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

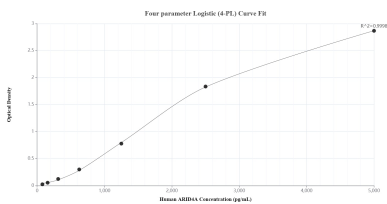
Selected Validation Data



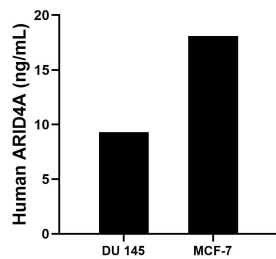
Various lysates were subjected to SDS PAGE followed by western blot with 83489-1-RR (ARID4A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83489-1-PBS in a different storage buffer formulation.



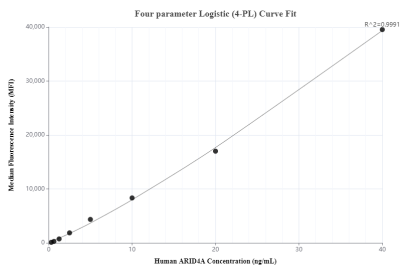
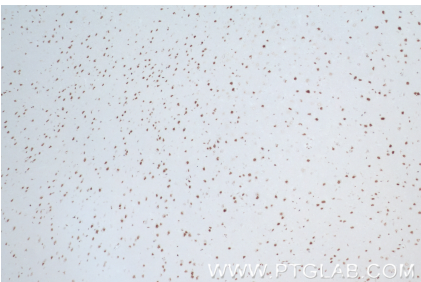
1x10⁶ U2OS cells were intracellularly stained with 0.25 ug ARID4A Recombinant antibody (83489-1-RR, Clone:240436A4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83489-1-PBS in a different storage buffer formulation.



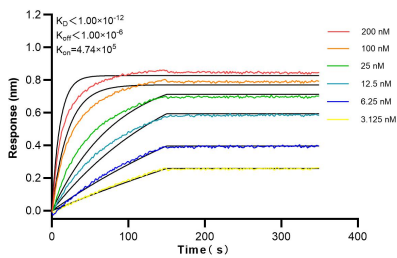
Sandwich ELISA standard curve of MP00489-3, Human ARID4A Recombinant Matched Antibody Pair - PBS only. 83489-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag33114. 83489-2-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



The mean ARID4A concentration was determined to be 9.3 ng/mL in DU 145 cell extract based on a 3.2 mg/mL extract load, 18.1 ng/mL in MCF-7 cell extract based on a 3.5 mg/mL extract load.



Cytometric bead array standard curve of MP00489-1, ARID4A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83489-1-PBS. Detection antibody: 83489-4-PBS. Standard: Ag33114. Range: 0.313-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83489-1-RR against Human ARID4A were performed. The affinity constant is below 1 pM.