

For Research Use Only

ARPC4 Polyclonal antibody

Catalog Number: 10930-1-AP **4 Publications**



Basic Information

Catalog Number: 10930-1-AP	GenBank Accession Number: BC012596	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10093	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P59998	
Isotype: IgG	Full Name: actin related protein 2/3 complex, subunit 4, 20kDa	
Immunogen Catalog Number: AG1366	Calculated MW: 20 kDa	
	Observed MW: 19-25 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, mouse small intestine tissue, rat lymph tissue, 4T1 cells, human placenta tissue, human brain tissue, mouse cerebellum tissue, MCF-7 cells

IHC : human cervical cancer tissue, human testis tissue, human lung cancer tissue, human urothelial carcinoma tissue

Background Information

The ARP2/3 complex consists of seven subunits: two actin-related proteins (ARP2 and ARP3) and five ARP2/3 complex polypeptides (ARPC1B and ARPC2-5). ARPC4 is a core subunit of the actin-related protein (ARP2/3) complex, which catalyzes the formation of F-actin networks. ARPC4 is essential for the structural integrity of the ARP2/3 complex function. Mutations in ARPC4 cause Developmental delay, language impairment, and ocular abnormalities (DEVLO)(PMID: 35047857).

Notable Publications

Author	Pubmed ID	Journal	Application
Guoxuan Qin	28627476	Biochim Biophys Acta Proteins Proteom	WB
Bo Fang	39199289	Biomolecules	WB,IF
Xin Zhang	38924997	Drug Resist Updat	WB

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

*** 20ul sizes contain 0.1% BSA

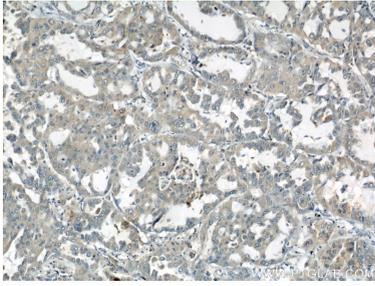
For technical support and original validation data for this product please contact:

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

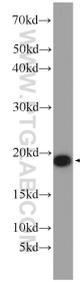
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data

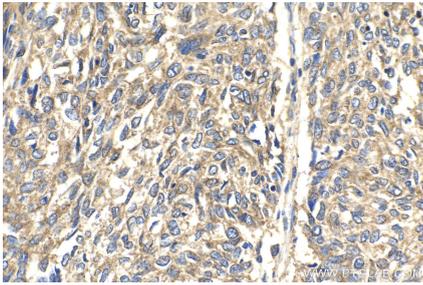


Immunohistochemical analysis of paraffin-embedded human lung cancer using 10930-1-AP (ARPC4 antibody) at dilution of 1:50 (under 10x lens).

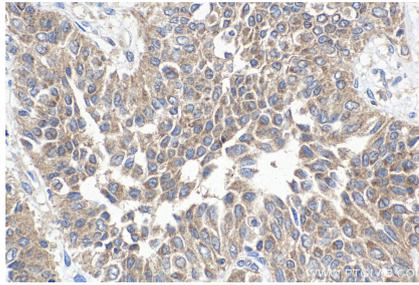


mouse brain tissue were subjected to SDS PAGE followed by western blot with 10930-1-AP (ARPC4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10930-1-AP (ARPC4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10930-1-AP (ARPC4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 10930-1-AP (ARPC4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).