

For Research Use Only

# ATRX Polyclonal antibody

Catalog Number: 20495-1-AP



## Basic Information

<b>Catalog Number:</b> 20495-1-AP	<b>GenBank Accession Number:</b> BC002521	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 546	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:250-1:1000 IF/ICC 1:1000-1:4000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P46100	
<b>Isotype:</b> IgG	<b>Full Name:</b> alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG13984	<b>Calculated MW:</b> 2492 aa, 283 kDa	
	<b>Observed MW:</b> 280-300 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> A549 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> rat brain tissue,
	<b>IF/ICC :</b> A549 cells,

## Background Information

The  $\alpha$ -thalassemia mental retardation X-linked protein (ATRX) is a member of the Switch 2, sucrose non-fermenting 2 (SWI2/SNF2) family of helicases/ATPases that exhibits chromatin remodeling activity. ATRX contains an atypical plant homeodomain (PHD) finger domain that recognizes a combinatorial modification pattern on histone H3 tails. ATRX mutations in cancer are most commonly found in pediatric and adolescent malignancies including glioma, neuroblastoma, adrenocortical carcinoma and osteosarcoma(PMID: 32015155).

## Storage

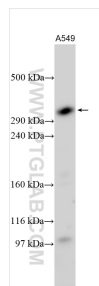
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

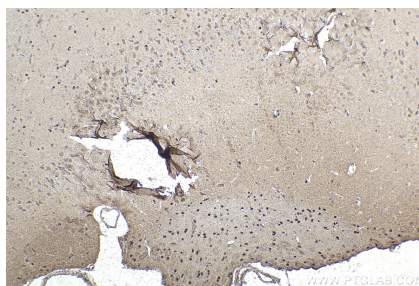
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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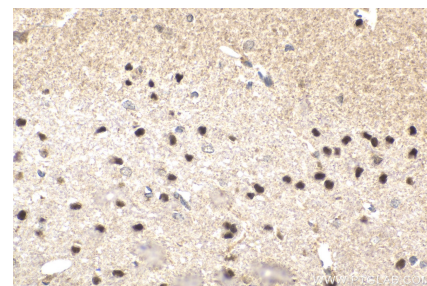
## Selected Validation Data



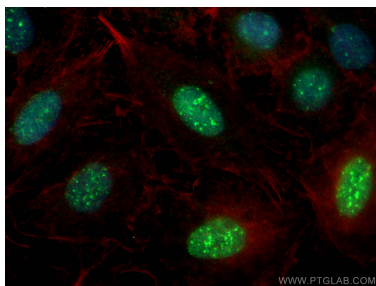
A549 cells were subjected to Tris-Acetate gel system followed by western blot with 20495-1-AP (ATRX antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 20495-1-AP (ATRX antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 20495-1-AP (ATRX antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using ATRX antibody (20495-1-AP) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).