

For Research Use Only

# hIST1 Polyclonal antibody

Catalog Number: 51002-1-AP

Featured Product

26 Publications



## Basic Information

<b>Catalog Number:</b> 51002-1-AP	<b>GenBank Accession Number:</b> BC000430	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9798	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P53990	
<b>Isotype:</b> IgG	<b>Full Name:</b> KIAA0174	
<b>Immunogen Catalog Number:</b> AG0721	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : A549 cells, HeLa cells, PC-3 cells IHC : human lung cancer tissue,
<b>Cited Applications:</b> WB, IHC, IF, CoIP	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	

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

## Background Information

Human increased sodium tolerance-1 (hIST1), encoded by KIAA0174 gene, is a newly reported endosomal sorting complexes required for transport (ESCRT)-III family member. IST1 possesses two different types of microtubule-interacting and transport (MIT)-interacting motifs (MIM1 and MIM2), this is required for its interaction with calpain 7 which is important for their roles in the ESCRT system.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shiwei Liu	30232450	Nature	IF
James W Connell	31587092	Cell Mol Life Sci	WB
Catherine Rodger	33186545	Am J Hum Genet	IF

## Storage

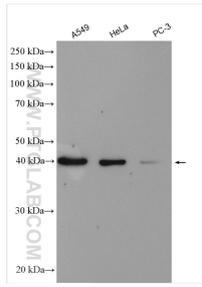
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

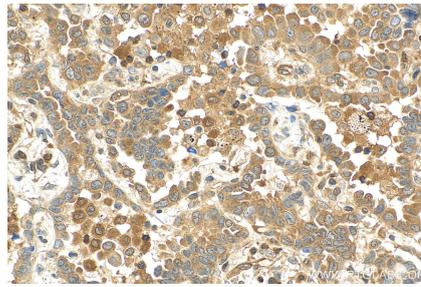
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 51002-1-AP (h1ST1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 51002-1-AP (h1ST1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).