

For Research Use Only

# hIST1 Polyclonal antibody

Catalog Number: 51002-1-AP

Featured Product

26 Publications



## Basic Information

**Catalog Number:**

51002-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0721

**GenBank Accession Number:**

BC000430

**GeneID (NCBI):**

9798

**UNIPROT ID:**

P53990

**Full Name:**

KIAA0174

**Calculated MW:**

40 kDa

**Observed MW:**

40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IHC, IF, CoIP

**Species Specificity:**

human

**Cited Species:**

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**

**Positive Controls:**

WB : A549 cells, HeLa cells, PC-3 cells

IHC : human lung cancer tissue,

## 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

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

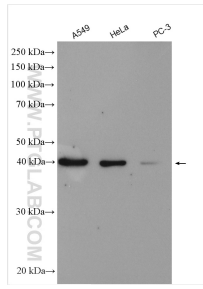
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

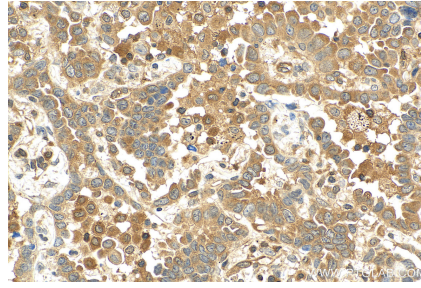
W: [ptgcn.com](http://ptgcn.com)

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## 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).