For Research Use Only

# hIST1 Monoclonal antibody

Catalog Number:66989-1-Ig 2 Publications

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## Basic Information

Catalog Number:
66989-1-Ig

Size:
150ul , Concentration: 1800 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG28364

GenBank Accession Number:
BC000430

GeneID (NCBI):
9798

UNIPROT ID:
P53990

Full Name:
KIAA0174

Calculated MW:
40 kDa

Observed MW:
40 kDa

Purification Method:
Protein A purification

CloneNo.:
1E12A7

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:250-1:1000
IF/ICC 1:200-1:800

## Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC, CoIP

Species Specificity:
Human, Mouse, Rat

Cited Species:
human

***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 : HeLa cells, HSC-T6 cells, NIH/3T3 cells, mouse liver tissue, HEK-293 cells, MCF-7 cells, Jurkat cells, A549 cells, HepG2 cells, PC-3 cells

IHC : human lung cancer tissue,

IF/ICC : HeLa cells,

## 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.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Pinki Gahlot | 38503285 | Mol Cell | WB,IF,CoIP |
| Femmy C Stempels | 37200023 | J Cell Biol | WB,IHC,IF |

## Storage

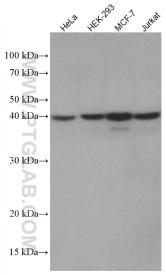
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

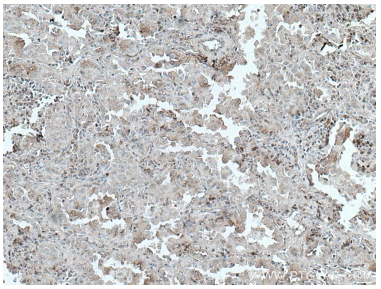
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

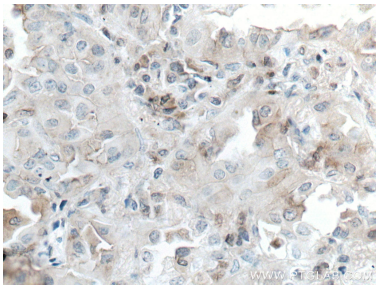
## Selected Validation Data



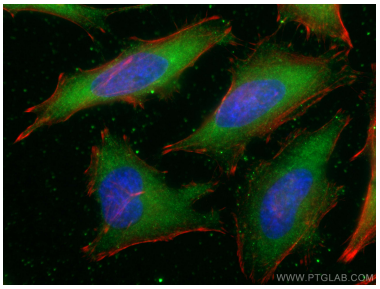

Various lysates were subjected to SDS PAGE followed by western blot with 66989-1-Ig (hIST1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66989-1-Ig (hIST1 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 human lung cancer tissue slide using 66989-1-Ig (hIST1 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 HeLa cells using hIST1 antibody (66989-1-Ig, Clone: 1E12A7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).