

## hIST1 Monoclonal antibody

Catalog Number: 66989-1-Ig 2 Publications

## Basic Information

<b>Catalog Number:</b> 66989-1-Ig	<b>GenBank Accession Number:</b> BC000430	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1800 µg/ml	<b>GeneID (NCBI):</b> 9798	<b>CloneNo.:</b> 1E12A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P53990	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> KIAA0174	
<b>Immunogen Catalog Number:</b> AG28364	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>  <b>WB :</b> 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 <b>IHC :</b> human lung cancer tissue, <b>IF/ICC :</b> HeLa cells,
<b>Cited Applications:</b> WB, IF, IHC, CoIP	
<b>Species Specificity:</b> Human, Mouse, Rat	
<b>Cited Species:</b> human	
<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>	

## 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.

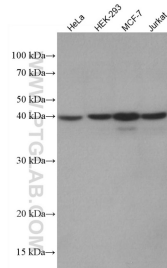
## Notable Publications

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

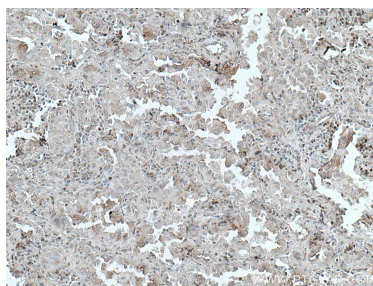
## Storage

**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

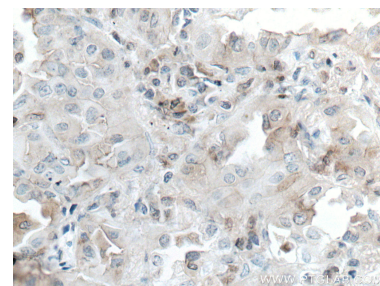
## Selected Validation Data



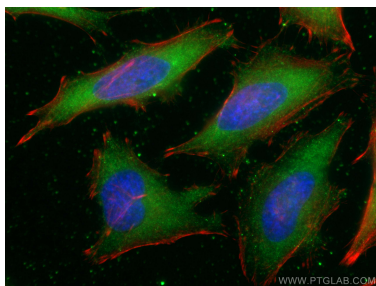
Various lysates were subjected to SDS PAGE followed by western blot with 66989-1-Ig (hIST1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).