For Research Use Only

Histone-H3 Polyclonal antibody

Catalog Number: 17168-1-AP

781 Publications



Basic Information

Catalog Number: GenBank Accession Number: 17168-1-AP BC015544 GeneID (NCBI): Size: 500 μg/ml 333932 **UNIPROT ID:** Source: Rabbit Q71DI3 Full Name: Isotype:

histone cluster 2, H3a Calculated MW: Immunogen Catalog Number: AG10644 136 aa, 15 kDa

> Observed MW: 15-17 kDa

Purification Method:

Antigen affinity purification Recommended Dilutions:

WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500 IF 1:600-1:2400

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications: ChIP, CoIP, IF, IHC, IP, WB Species Specificity:

human, mouse, rat

human, goat, chicken, rat, Arabidopsis, yellow catfish, mouse, monkey, fish, pig

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: HEK-293 cells, A549 cells, mouse skeletal muscle tissue, mouse liver tissue, mouse brain tissue, Hela cells, HepG cells, MCF-7 cells, NIH/3T3 cells, mouse kidney tissue, rat kidney tissue

IP: MCF-7 cells,

IHC: human oesophagus cancer tissue, human skin cancer tissue, human breast cancer tissue

IF: HeLa cells.

Background Information

Histone-H3, histone cluster 2, H3a is the core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machinery which requires DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, $and \, nucleosome \, remodeling. \, His tone-H3 \, is \, expressed \, during \, S \, phase; \, then \, expression \, strongly \, decreases \, as \, cell \, and \, remove \, for all a contract of the contraction of the$ division slows down during the process of differentiation.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|----------------------|-------------|
| Yuqian Wang | 32942847 | J Agric Food Chem | WB |
| Dan-Qian Chen | 33062239 | Ther Adv Chronic Dis | WB |
| Jie Gao | 34592151 | Cell Rep | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

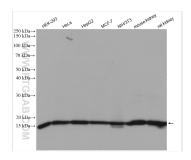
Aliquoting is unnecessary for -20°C storage

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

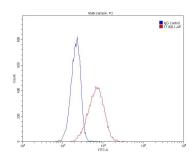
T: 4006900926 E: Proteintech-CN@ptglab.com

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

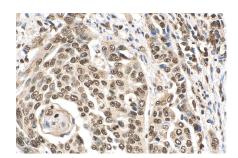
Selected Validation Data



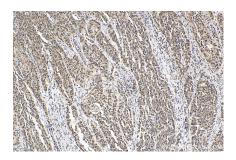
Various lysates were subjected to SDS PAGE followed by western blot with 17168-1-AP (Histone-H3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



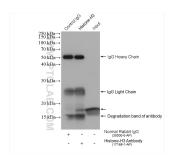
1X10^6 HeLa cells were stained with 0.20ug Histone-H3 antibody (17168-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.



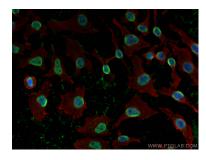
Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 17168-1-AP (Histone-H3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 17168-1-AP (Histone-H3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Histone-H3 (IP:17168-1-AP, 4ug; Detection:17168-1-AP 1:8000) with MCF-7 cells lysate 2120 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Histone-H3 antibody (17168-1-AP) at dilution of 1:1200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Beta Actin antibody (66009-1-Ig, Clone: 2D4H5, red).