For Research Use Only

Histone H3 Polyclonal antibody

Catalog Number: 17168-1-AP

Featured Product

1051 Publications



Basic Information

Catalog Number: GenBank Accession Number:

17168-1-AP BC015544

Size: GeneID (NCBI):
150ul , Concentration: 1000 ug/ml by 333932

Nanodrop; UNIPROT ID:

Source: Q71DI3
Rabbit Full Name:

Isotype: histone cluster 2, H3a
IgG Calculated MW:

Immunogen Catalog Number: 136 aa, 15 kDa AG10644 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/ICC: 1:600-1:2400

FC (Intra): 0.25 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

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

Species Specificity: human, mouse, rat

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

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/ICC : HeLa cells,
FC (Intra) : 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. Histone-H3 is expressed during S phase; then expression strongly decreases as cell 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.

Storage Buffer

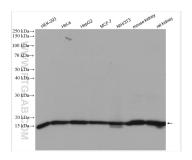
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

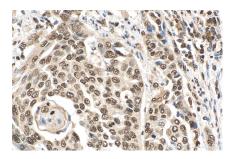
*** 20ul sizes contain 0.1% BSA

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

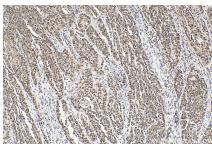
Selected Validation Data



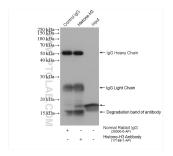
Various lysates were subjected to SDS PAGE followed by western blot with 17168-1-AP (Histone H3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



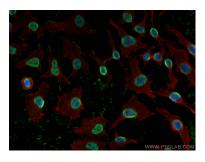
Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 17168-1-AP (Histone H3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



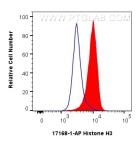
Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 17168-1-AP (Histone H3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 IgC(H+L), Beta Actin antibody (66009-1-Ig, Clone: 2D4H5, red).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug Histone H3 Polyclonal antibody (17168-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit I gG(H+I) (SA00013-2)(red), or 0.25 ug Rabbit I gG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).