

For Research Use Only

Histone H3.3 Polyclonal antibody

Catalog Number: 13754-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number: 13754-1-AP	GenBank Accession Number: BC038989	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3020	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800 IF/ICC 1:400-1:1600
Source: Rabbit	UNIPROT ID: P84243	
Isotype: IgG	Full Name: H3 histone, family 3A	
Immunogen Catalog Number: AG4696	Calculated MW: 136 aa, 15 kDa	
	Observed MW: 15-17 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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: A431 cells, HeLa cells, HEK-293 cells, mouse thymus tissue, mouse kidney tissue, mouse lung tissue

IHC: mouse testis tissue,

IF/ICC: A431 cells,

Background Information

Histones are the basic nuclear proteins responsible for the nucleosome structure of the chromosomal fiber. Five classes of histone genes have been reported, some of which are expressed only during S phase, while others are replication independent. The latter are referred to as replacement histones and are expressed in quiescent or terminally differentiated cells. [PMID: 8586426] Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. H3F3A is one replacement histone [PMID:16258499].

Notable Publications

Author	Pubmed ID	Journal	Application
Izabela Pereira Vatanabe	33670873	Int J Mol Sci	WB
Siwen Li	36057428	Fish Shellfish Immunol	IF
Xinyu Fu	33862463	Biochem Biophys Res Commun	WB

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

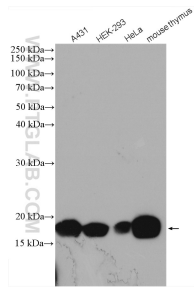
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

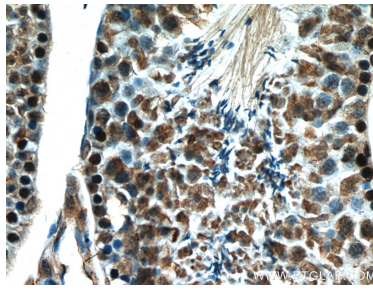
E: proteintech@ptglab.com
W: ptglab.com

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

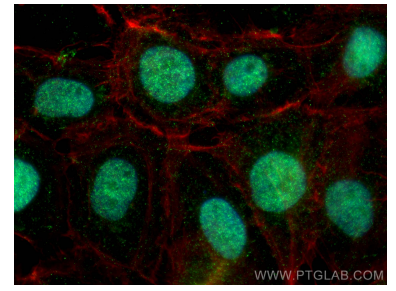
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13754-1-AP (Histone H3.3 antibody) at dilution of 1:1000 incubated at 4 degree celsius over night.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13754-1-AP (Histone H3.3 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Histone H3.3 antibody (13754-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).