

For Research Use Only

Histone H3.3 Polyclonal antibody

Catalog Number: 10265-1-AP

4 Publications



Basic Information

Catalog Number:

10265-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0326

GenBank Accession Number:

BC001124

GeneID (NCBI):

3021

UNIPROT ID:

P84243

Full Name:

H3 histone, family 3B (H3.3B)

Calculated MW:

15 kDa

Observed MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:200-1:1000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB: HEK-293 cells, HeLa 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. H3F3B is one replacement histone [PMID: 8586426]. It constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Thereby it has a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability [PMID: 14718166, 15776021].

Notable Publications

Author	Pubmed ID	Journal	Application
Qi Cheng	40040797	Mater Today Bio	WB
Hongchun Xiang	39921559	Mol Pain	WB
Jiajia Wang	38898473	Cell Commun Signal	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

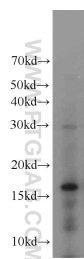
For technical support and original validation data for this product please contact:

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Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 10265-1-AP (Histone H3.3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.