

# H3F3B Polyclonal antibody

Catalog Number: 10265-1-AP

## Basic Information

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| <b>Catalog Number:</b><br>10265-1-AP   | <b>GenBank Accession Number:</b><br>BC001124       | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul , Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>3021                      | <b>Recommended Dilutions:</b><br>WB 1:200-1:1000             |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>H3 histone, family 3B (H3.3B) |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>15 kDa                    |  |
| <b>Immunogen Catalog Number:</b><br>AG0326   | <b>Observed MW:</b><br>17 kDa                      |  |

## Applications

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| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB : HEK-293 cells, HeLa cells |
| <b>Species Specificity:</b><br>human     |   |

## 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].

## Storage

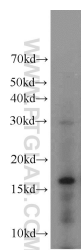
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 10265-1-AP (H3F3B antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.