For Research Use Only

Histone H3 Recombinant antibody

Catalog Number:81984-2-RR



Basic Information

Catalog Number: GenBank Accession Number:

 81984-2-RR
 BC015544

 Size:
 GeneID (NCBI):

 1000 μ g/ml
 333932

 Source:
 UNIPROT ID:

 Rabbit
 Q71DI3

 Isotype:
 Full Name:

IgGhistone cluster 2, H3aImmunogen Catalog Number:Calculated MW:AG10644136 aa, 15 kDa

Observed MW: 15 kDa

Applications

Tested Applications: WB, FC (Intra), ELISA Species Specificity:

human, mouse, rat

Positive Controls:

WB: HeLa cells, A549 cells, mouse brain tissue, mouse kidney tissue, mouse skeletal muscle tissue, rat brain

Purification Method:

Protein A purfication

Recommended Dilutions:

WB 1:5000-1:50000

CloneNo.:

241079B2

tissue

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.

Storage

Storage:

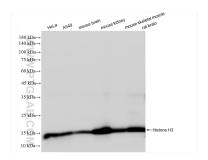
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

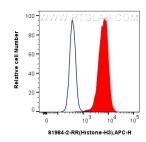
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

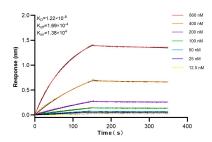
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81984-2-RR (Histone H3 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug Histone H3 Recombinant antibody (81984-2-RR, Clone:241079B2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLL) kinetic assays of 81984-2-RR against Human Histone H3 were performed. The affinity constant is 12.2 nM.