

# HIRA Recombinant antibody

Catalog Number: 83194-5-RR

## Basic Information

**Catalog Number:**

83194-5-RR

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG34439

**GenBank Accession Number:**

NM\_003325

**GeneID (NCBI):**

7290

**UNIPROT ID:**

P54198

**Full Name:**

HIR histone cell cycle regulation defective homolog A (S. cerevisiae)

**Calculated MW:**

112 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

240006E5

**Recommended Dilutions:**

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, FC (Intra), ELISA

**Species Specificity:**

human

**Positive Controls:**

IF/ICC : HeLa cells,

## Background Information

HIRA protein is encoded by a gene within a region of human chromosome 22q11.2 deleted in most patients with the DiGeorge syndrome, a developmental disorder, and was named for its amino acid sequence homology to two *S. cerevisiae* proteins, Hir1p and Hir2p. HIRA is critical in a specific chromatin assembly pathway that takes place independently of DNA synthesis (PMID: 12049744). HIRA complex associates with various proteins, such as transcription factors, RNA pol II, Prohibitin (PHB), and replication protein A (RPA) suggests that the targeting of the complex at specific locations may exploit additional structural properties and mechanisms (PMID: 30082790).

## Storage

**Storage:**

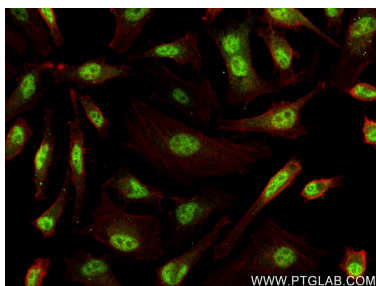
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

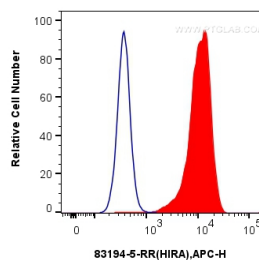
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

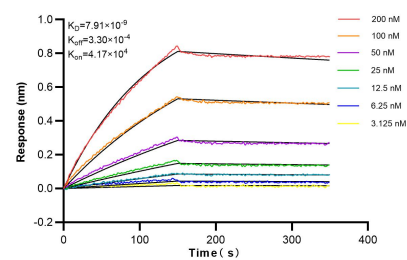
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HIRA antibody (83194-5-RR, Clone: 240006E5) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



$1 \times 10^6$  K-562 cells were intracellularly stained with 0.25  $\mu$ g HIRA Recombinant Antibody (83194-5-RR, Clone: 240006E5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83194-5-RR against Human HIRA were performed. The affinity constant is 7.91 nM.