

For Research Use Only

# YY1 Recombinant antibody

Catalog Number: 82712-3-RR



## Basic Information

<b>Catalog Number:</b> 82712-3-RR	<b>GenBank Accession Number:</b> BC037308	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7528	<b>CloneNo.:</b> 1B5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P25490	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> YY1 transcription factor	
<b>Immunogen Catalog Number:</b> AG17792	<b>Calculated MW:</b> 414 aa, 45 kDa	
	<b>Observed MW:</b> 65-70 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ChIP, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> HeLa cells, <b>IF/ICC :</b> HepG2 cells,

## Background Information

YY1, also named as DELTA, INO80S and NF-E1, contains four C2H2-type zinc fingers and belongs to the YY transcription factor family. YY1 is a multifunctional transcription factor that exhibits positive and negative control on a large number of cellular and viral genes by binding to sites overlapping the transcription start site. YY1 may direct histone deacetylases and histone acetyltransferases to a promoter in order to activate or repress the promoter, thus implicating histone modification in the YY1. The open reading frame of the human YY1 cDNA encodes a protein of 414 amino acids with a predicted molecular weight of 44 kDa. However, YY1 migrates on SDS gels as a 65-68 kDa protein, probably due to the structure of the protein. It is a ubiquitously expressed transcription factor with fundamental roles in embryogenesis, differentiation, replication and proliferation.

## Storage

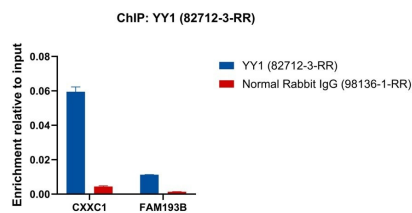
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

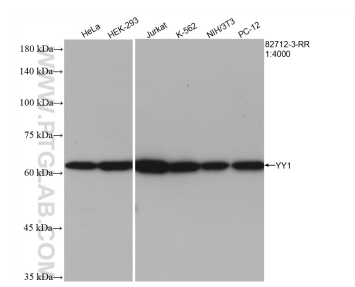
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

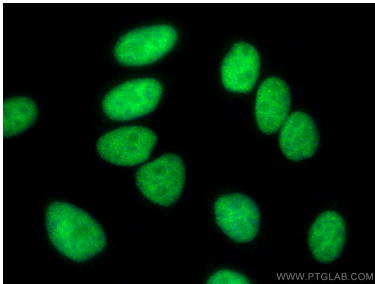
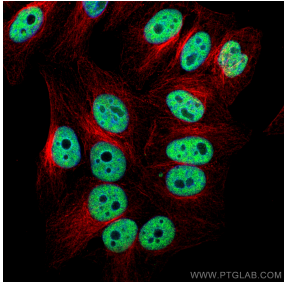
Selected Validation Data



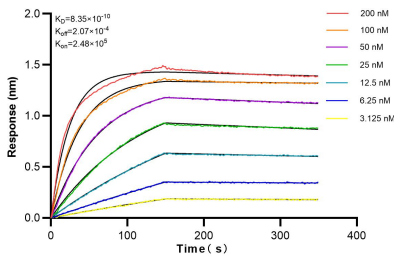
Chromatin was prepared from K-562 cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of YY1 Antibody (82712-3-RR) or 5 µg of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real time PCR



Various lysates were subjected to SDS PAGE followed by western blot with 82712-3-RR (YY1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using YY1 antibody (82712-3-RR, Clone: 1B5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 82712-3-RR against Human YY1 were performed. The affinity constant is 0.835 nM.