

YY1 Recombinant antibody

Catalog Number: 82712-3-RR

Basic Information

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

Applications

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

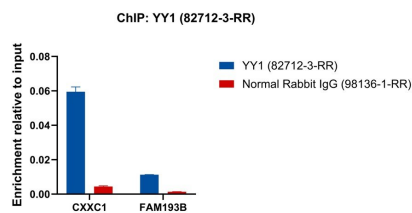
Background Information

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.

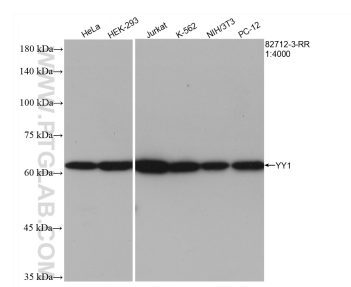
Storage

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

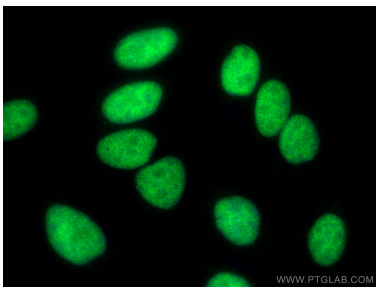
Selected Validation Data



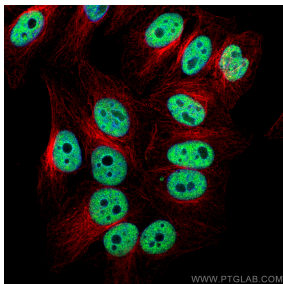
Chromatin was prepared from K-562 cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of YY1 Antibody (82712-3-RR) or 5 ug of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified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



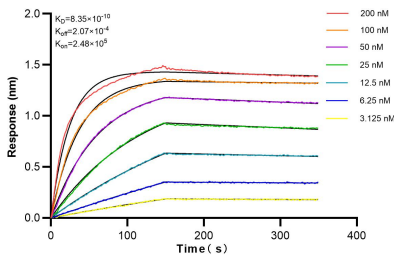
Various lysates were subjected to SDS PAGE followed by western blot with 82712-3-RR (YY1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using YY1 antibody (82712-3-RR, Clone: 1B5) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 82712-3-RR against Human YY1 were performed. The affinity constant is 0.835 nM.