For Research Use Only

YY1 Recombinant monoclonal antibody

Catalog Number:82712-3-RR

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Basic Information

Catalog Number:
82712-3-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17792

GenBank Accession Number:
BC037308

GeneID (NCBI):
7528

UNIPROT ID:
P25490

Full Name:
YY1 transcription factor

Calculated MW:
414 aa, 45 kDa

Observed MW:
65-70 kDa

Purification Method:
Protein A purification

CloneNo.:
1B5

Recommended Dilutions:
WB: 1:1000-1:8000
IF/ICC: 1:200-1:800
ChIP-qPCR: 1:10-1:100

Applications

Tested Applications:
WB, IF/ICC, ELISA, ChIP-qPCR

Species Specificity:
human, mouse

Positive Controls:

WB : HeLa cells,

IF/ICC : HepG2 cells,

ChIP-qPCR : K-562 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.

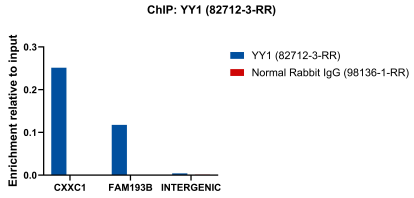
Storage

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

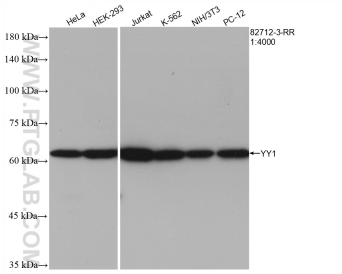
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

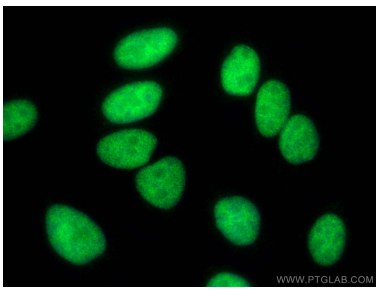
Selected Validation Data



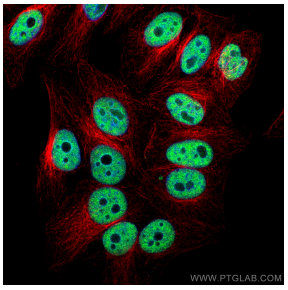
Chromatin was prepared from K-562 cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of YY1 (82712-3-RR) or 5 ug of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified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



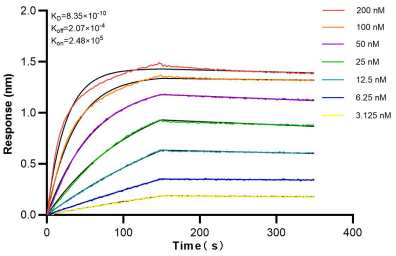
Various lysates were subjected to SDS PAGE followed by western blot with 82712-3-RR (YY1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



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