

For Research Use Only

# YY1 Monoclonal antibody

Catalog Number: 66281-1-Ig **15 Publications**



## Basic Information

<b>Catalog Number:</b> 66281-1-Ig	<b>GenBank Accession Number:</b> BC037308	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7528	<b>CloneNo.:</b> 2E11C5
<b>Source:</b> Mouse	<b>Full Name:</b> YY1 transcription factor	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 414 aa, 45 kDa	<b>IHC 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG17732	<b>Observed MW:</b> 65-70 kDa	<b>IF 1:200-1:800</b>

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : C6 cells, HeLa cells IP : NIH/3T3 cells, IHC : human breast cancer tissue, IF : HepG2 cells,
<b>Cited Applications:</b> CoIP, IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat, monkey	
<b>Cited Species:</b> human, mouse, rat	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Changjiang Liu	34544022	Ecotoxicol Environ Saf	CoIP, WB
Xianping Huang	32881243	Environ Toxicol	
Jin Li	28541289	Nat Commun	WB

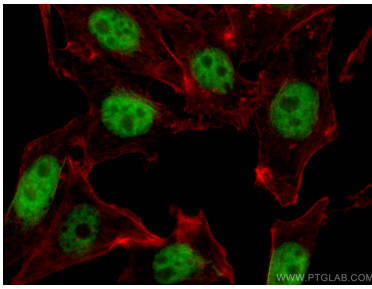
## Storage

**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

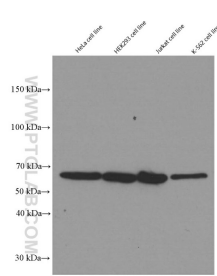
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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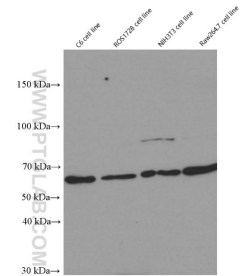
## Selected Validation Data



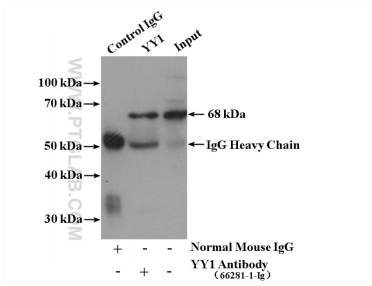
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66281-1-Ig (YY1 antibody), at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



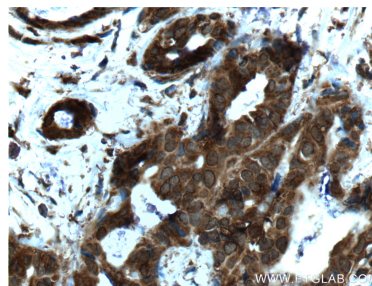
Western blot of YY1 in various human cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Western blot of YY1 in rat (C6 and ROS1728) and mouse (NIH3T3 and Raw264.7) cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



IP Result of anti-YY1 (IP:66281-1-Ig, 5ug; Detection:66281-1-Ig 1:1000) with NIH/3T3 cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66281-1-Ig (YY1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).