

For Research Use Only

YY1 Monoclonal antibody

Catalog Number: 66281-1-Ig **19 Publications**



Basic Information

Catalog Number: 66281-1-Ig	GenBank Accession Number: BC037308	Purification Method: Protein A purification
Size: 150ul , Concentration: 1800 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7528	CloneNo.: 2E11C5
Source: Mouse	Full Name: YY1 transcription factor	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Isotype: IgG2a	Calculated MW: 414 aa, 45 kDa	IHC 1:50-1:500
Immunogen Catalog Number: AG17732	Observed MW: 65-70 kDa	IF 1:200-1:800

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: ChIP, CoIP, IF, IHC, WB	WB : C6 cells, A431 cells, MCF-7 cells, NIH/3T3 cells, HeLa cells, COS-7 cells, HepG2 cells, HEK-293 cells, Jurkat cells, K-562 cells
Species Specificity: human, mouse, rat, monkey	IP : NIH/3T3 cells,
Cited Species: human, mouse, rat	IHC : human breast cancer tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF : 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.

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

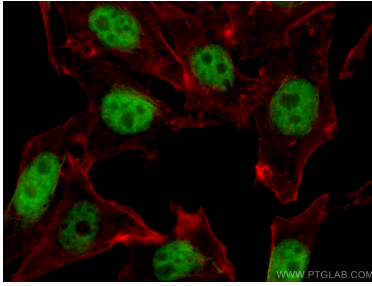
Storage

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

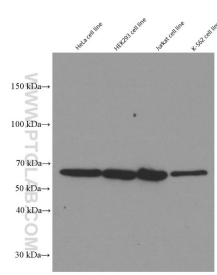
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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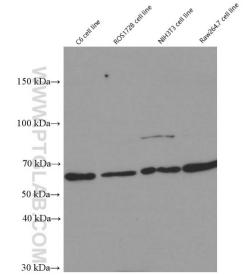
Selected Validation Data



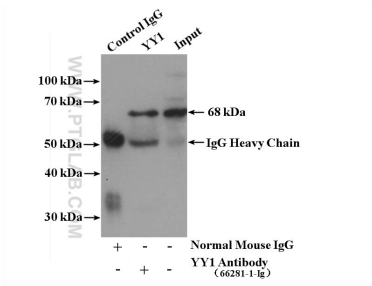
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66281-1-Ig (YY1 antibody), at dilution of 1:400 and CoralLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



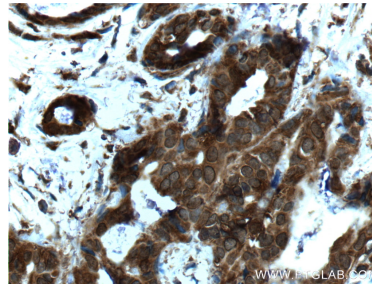
Western blot of YY1 in various human cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



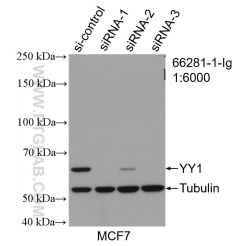
Western blot of YY1 in rat (C6 and ROS1728) and mouse (NIH3T3 and Raw264.7) cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



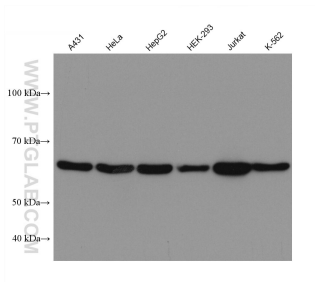
IP Result of anti-YY1 (IP:66281-1-Ig, 5ug; Detection:66281-1-Ig 1:1000) with NIH/3T3 cells lysate 4000ug.



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).



WB result of YY1 antibody (66281-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YY1 transfected MCF-7 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66281-1-Ig (YY1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.