

For Research Use Only

YY1 Monoclonal antibody

Catalog Number: 66281-1-Ig

Featured Product

53 Publications



Basic Information

Catalog Number:

66281-1-Ig

GenBank Accession Number:

BC037308

Purification Method:

Protein A purification

Size:

150ul, Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

7528

CloneNo.:

2E11C5

UNIPROT ID:

P25490

Recommended Dilutions:

WB: 1:5000-1:50000

Source:

Mouse

Full Name:

YY1 transcription factor

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Isotype:

IgG2a

Calculated MW:

414 aa, 45 kDa

IHC: 1:5000-1:20000

Immunogen Catalog Number:

AG17732

Observed MW:

65-70 kDa

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, RIP

Species Specificity:

human, mouse, rat, monkey

Cited Species:

human, mouse, rat, pig

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

Positive Controls:

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

IP: NIH/3T3 cells,

IHC: human breast cancer tissue, human colon cancer tissue, human tonsillitis tissue

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Bin Li	36123703	Cancer Cell Int	IHC, WB
Changjiang Liu	34544022	Ecotoxicol Environ Saf	CoIP, WB
Xianping Huang	32881243	Environ Toxicol	

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

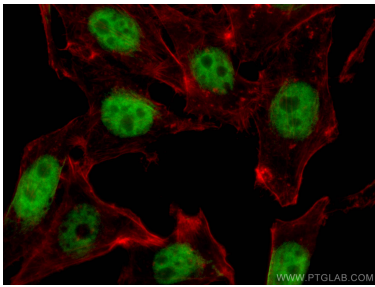
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

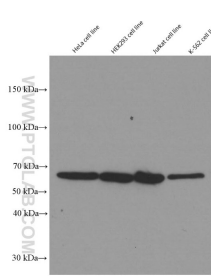
E: proteintech@ptglab.com
W: ptglab.com

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

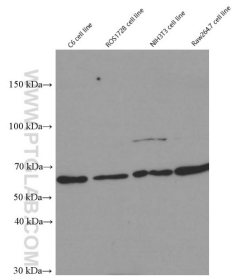
Selected Validation Data



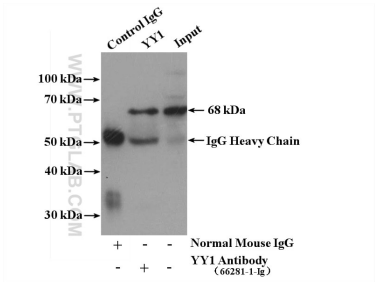
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66281-1-Ig (YY1 antibody), at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



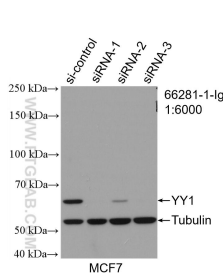
Western blot of YY1 in various human cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



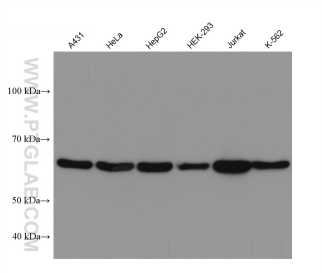
Western blot of YY1 in rat (C6 and ROS1728) and mouse (NIH3T3 and Raw264.7) cell lines with 66281-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



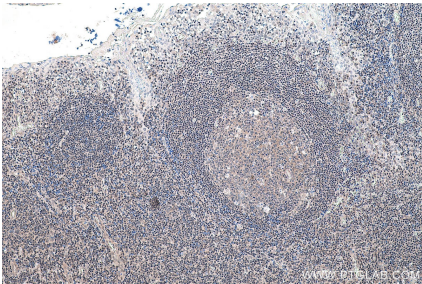
IP result of anti-YY1 (IP:66281-1-Ig, 5ug; Detection:66281-1-Ig 1:1000) with NIH/3T3 cells lysate 4000ug.



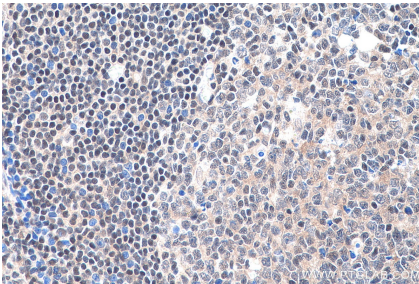
WB result of YY1 antibody (66281-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YY1 transfected MCF-7 cells.



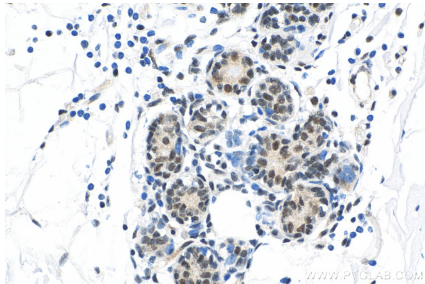
Various lysates were subjected to SDS PAGE followed by western blot with 66281-1-Ig (YY1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



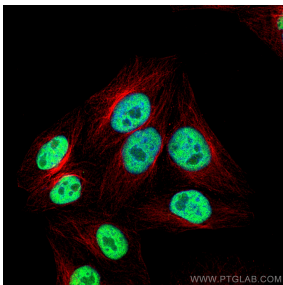
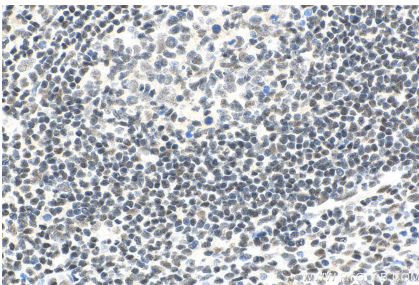
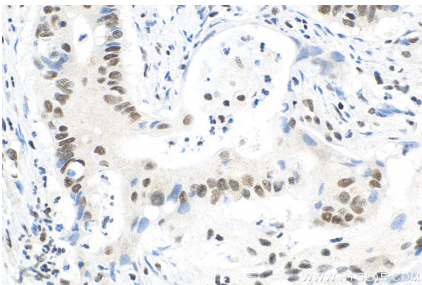
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66281-1-Ig (YY1 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66281-1-Ig (YY1 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66281-1-Ig (YY1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66281-1-Ig (YY1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66281-1-Ig (YY1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using YY1 antibody (66281-1-Ig, Clone: 2E11C5) at dilution of 1:1800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), Alpha Tubulin antibody (80762-1-RR, Clone: 1G7, red).