

Basic Information

Product Name	Anti-YY1 Antibody (Clone#6H3E1)	
Gene Name	YY1	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human YY1, identical to the related mouse sequence.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	65 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

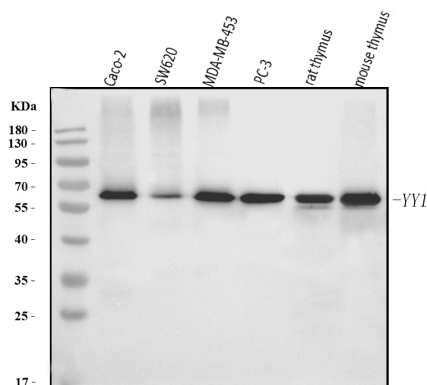
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

YY1 (Yin Yang 1) is a transcriptional repressor protein in humans that is encoded by the YY1 gene. YY1 is a ubiquitously distributed transcription factor belonging to the GLI-Kruppel class of zinc finger proteins. The protein is involved in repressing and activating a diverse number of promoters. 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 function of YY1.

Selected Validation Data



Western blot analysis of YY1 using anti-YY1 antibody (M00833-1).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Caco-2 whole cell lysates,

Lane 2: SW620 whole cell lysates,

Lane 3: MDA-MB-453 whole cell lysates,

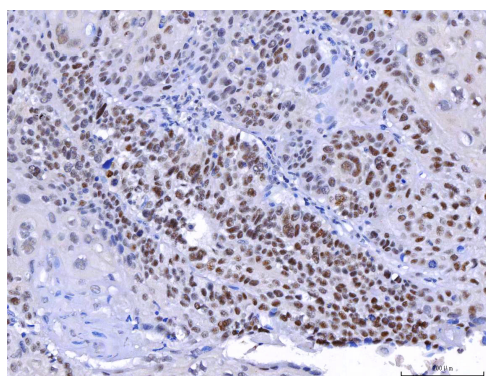
Lane 4: PC-3 whole cell lysates,

Lane 5: rat thymus tissue lysates,

Lane 6: mouse thymus tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with mouse anti-YY1 antigen affinity purified monoclonal antibody (M00833-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for YY1 at approximately 65 kDa. The expected band size for YY1 is at 45 kDa.



IHC analysis of YY1 using anti-YY1 antibody (M00833-1).

YY1 was detected in a paraffin-embedded section of human

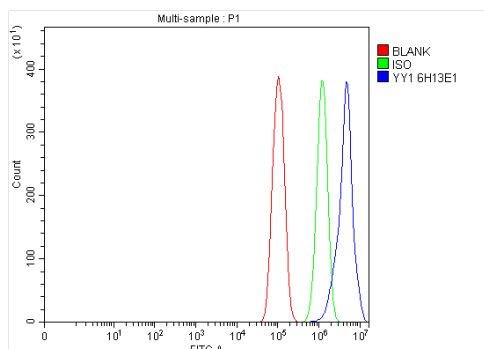
Laryngeal squamous cell carcinomas tissue. Biotinylated goat anti-

mouse IgG was used as secondary antibody. The tissue section was

incubated with mouse anti-YY1 Antibody (M00833-1) at a dilution of

1:200 and developed using Streptavidin-Biotin-Complex (SABC)

(Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of PC-3 cells using anti-YY1 antibody (M00833-1).

Overlay histogram showing PC-3 cells stained with M00833-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-YY1 Antibody (M00833-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.