Product datasheet

Anti-YY1 Antibody (Clone#2C10F9)

Catalog Number: *M00833-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-YY1 Antibody (Clone#2C10F9)
Gene Name	YY1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 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 (FCM): 1-3μg/1x10^6 cells (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℃ 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.

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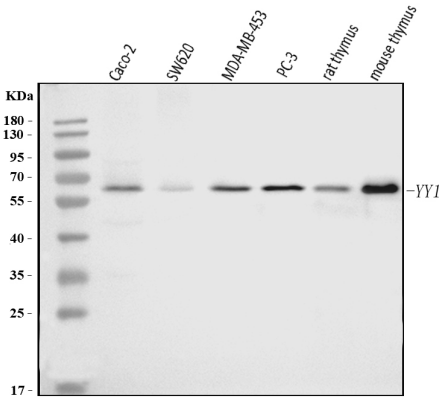
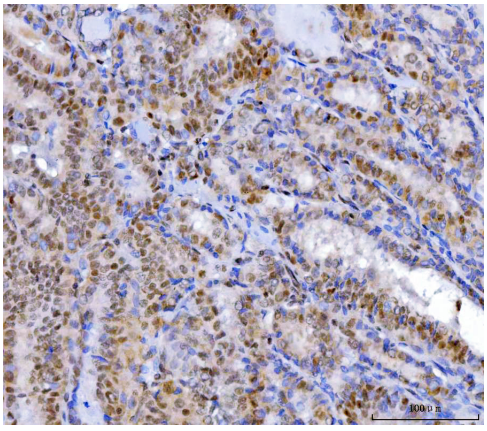
Selected Validation Data



Western blot analysis of anti-YY1 antibody (M00833-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Caco-2 whole cell lysates,
Lane 2: human SW620 whole cell lysates,
Lane 3: human MDA-MB-453 whole cell lysates,
Lane 4: human 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 (M00833-2) 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 (M00833-2).
YY1 was detected in a paraffin-embedded section of human thyroid cancer tissue. The tissue section was incubated with mouse anti-YY1 Antibody (M00833-2) at a dilution of 1:200 and developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1027) as the chromogen.

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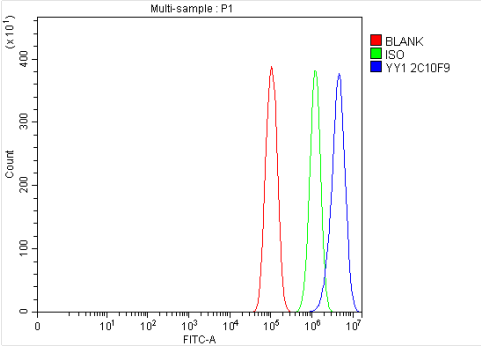

Flow Cytometry analysis of PC-3 cells using anti-YY1 antibody (M00833-2).
Overlay histogram showing PC-3 cells stained with M00833-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-YY1 Antibody (M00833-2) 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.