Product datasheet

Anti-YY1 Antibody (Clone#3F3E7)

Catalog Number: *M00833-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-YY1 Antibody (Clone#3F3E7)
Gene Name	YY1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, 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 Immunocytochemistry/Immunofluorescence (ICC/IF): 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℃ 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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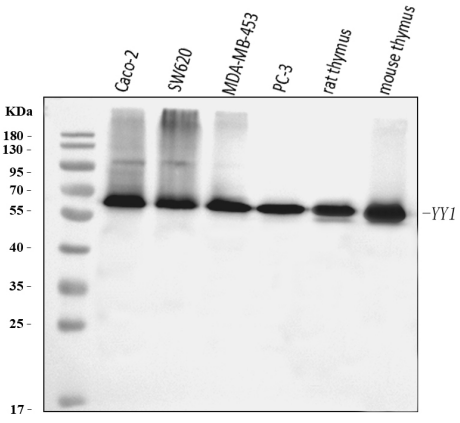
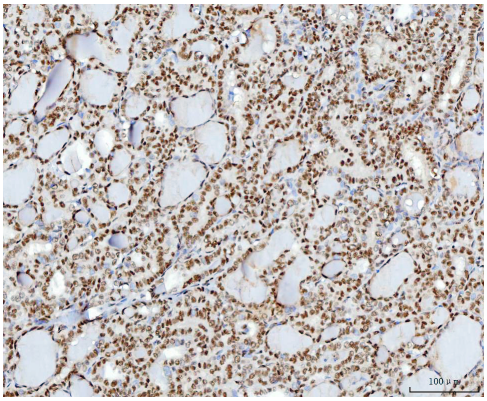
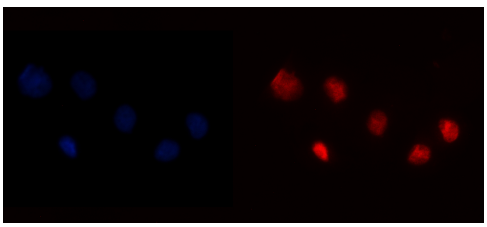
Selected Validation Data



Western blot analysis of YY1 using anti-YY1 antibody (M00833-3). 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 (M00833-3) 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 (M00833-3).
YY1 was detected in a paraffin-embedded section of human thyroid cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-YY1 Antibody (M00833-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of YY1 using anti-YY1 antibody (M00833-3).
YY1 was detected in an immunocytochemical section of T-47D cells. The section was incubated with mouse anti-YY1 Antibody (M00833-3) at a dilution of 1:100. Fluoro594-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1141) was used as secondary

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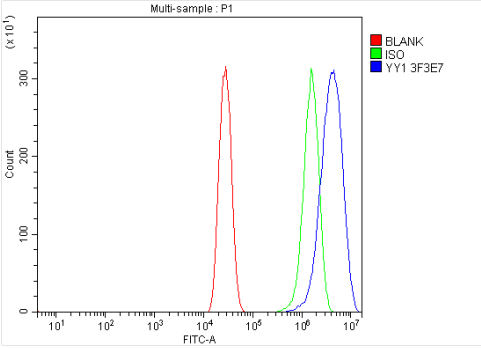
antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of A431 cells using anti-YY1 antibody (M00833-3).
Overlay histogram showing A431 cells stained with M00833-3 (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 (M00833-3) 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.