

## Anti-YY1 Antibody Picoband™ (monoclonal, 2C10F9)

Catalog Number: M00833-2

### About YY1

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.

### Overview

|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-YY1 Antibody Picoband™ (monoclonal, 2C10F9)                                                                                                                                                  |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                 |
| Description          | Boster Bio Anti-YY1 Antibody Picoband™ (monoclonal, 2C10F9) catalog # M00833-2. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.                      |
| Application          | Flow Cytometry, IHC, WB                                                                                                                                                                           |
| Clonality            | Monoclonal 2C10F9                                                                                                                                                                                 |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                      |
| Storage Instructions | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |
| Host                 | Mouse                                                                                                                                                                                             |
| Uniprot ID           | P25490                                                                                                                                                                                            |

### Technical Details

|                               |                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence in the middle region of human YY1, identical to the related mouse sequence.                                                    |
| Predicted Reactive Species    | Hepatitis Virus                                                                                                                                                                |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P). |
| Cross Reactivity              | No cross-reactivity with other proteins.                                                                                                                                       |
| Isotype                       | Mouse IgG2a                                                                                                                                                                    |
| Form                          | Lyophilized                                                                                                                                                                    |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                      |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human</p> <p>Flow Cytometry, 1-3 ug/1x10<sup>6</sup> cells, Human</p> |

## Anti-YY1 Antibody Picoband™ (monoclonal, 2C10F9) (M00833-2) Images

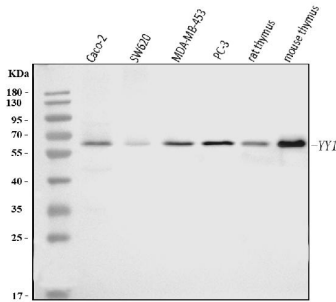


Figure 1. Western blot analysis of YY1 using anti-YY1 antibody (M00833-2).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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 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 nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with mouse anti-YY1 antigen affinity purified monoclonal antibody (Catalog #

M00833-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed

with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is

developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A

specific band was detected for YY1 at approximately 65 kDa. The expected band size for YY1 is at 65 kDa.

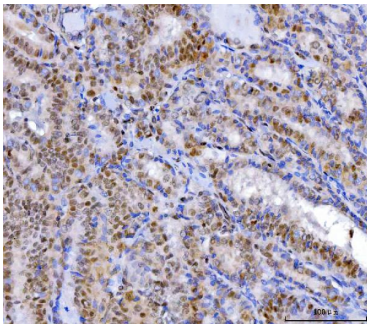


Figure 2. IHC analysis of YY1 using anti-YY1 antibody (M00833-2).

YY1 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was

performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat

serum. The tissue section was then incubated with 2 ug/ml mouse anti-YY1 Antibody (M00833-2) overnight at 4°C.

Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with

DAB as the chromogen.

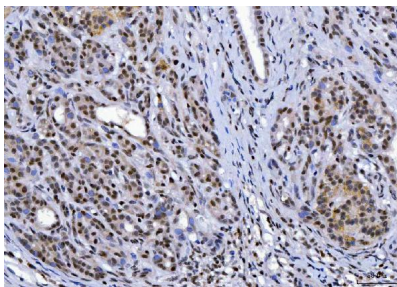


Figure 3. IHC analysis of YY1 using anti-YY1 antibody (M00833-2).

YY1 was detected in a paraffin-embedded section of human pancreatic ductal adenocarcinoma tissue. Heat mediated

antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked

with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-YY1 Antibody (M00833-2) overnight

at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog #

SV0001) with DAB as the chromogen.

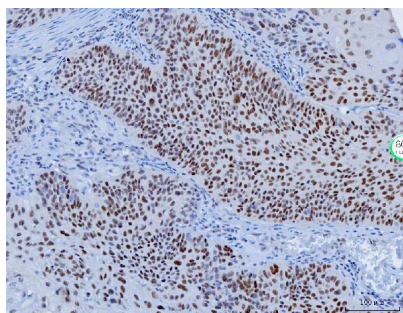


Figure 4. IHC analysis of YY1 using anti-YY1 antibody (M00833-2).

YY1 was detected in a paraffin-embedded section of human laryngeal squamous cell carcinomas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-YY1 Antibody (M00833-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

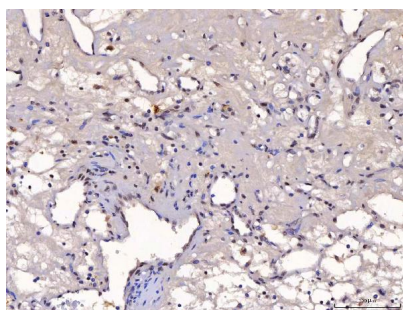


Figure 5. IHC analysis of YY1 using anti-YY1 antibody (M00833-2).

YY1 was detected in a paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-YY1 Antibody (M00833-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

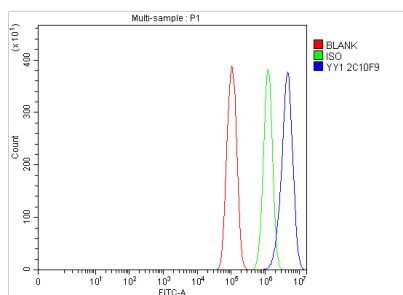


Figure 6. Flow Cytometry analysis of PC-3 cells using anti-YY1 antibody (M00833-2).

Overlay histogram showing PC-3 cells stained with M00833-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-YY1 Antibody (M00833-2, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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