

## Product Datasheet

### YY1 Mouse Monoclonal Antibody (orb1145862)

|                             |  |
|-----------------------------|--|
| <b>Catalog Number</b>       | orb1145862   |
| <b>Category</b>             | Antibodies   |
| <b>Description</b>          | Anti-YY1 Antibody (monoclonal, B8J5G3). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. |
| <b>Target</b>               | Transcriptional repressor protein YY1  |
| <b>Clonality</b>            | Monoclonal   |
| <b>Species/Host</b>         | Mouse  |
| <b>Isotype</b>              | Mouse IgG2b  |
| <b>Conjugation</b>          | Unconjugated   |
| <b>Reactivity</b>           | Human, Mouse, Rat  |
| <b>Form/Appearance</b>      | Lyophilized  |
| <b>Concentration</b>        | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.  |
| <b>Buffer/Preservatives</b> | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .   |
| <b>Reconstitution</b>       | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.  |
| <b>Purification</b>         | Immunogen affinity purified.   |
| <b>Immunogen</b>            | A synthetic peptide corresponding to a sequence in the middle region of human YY1, identical to the related mouse sequence.          |
| <b>UniProt ID</b>           | <b>P25490</b>  |
| <b>MW</b>                   | 65 kDa   |

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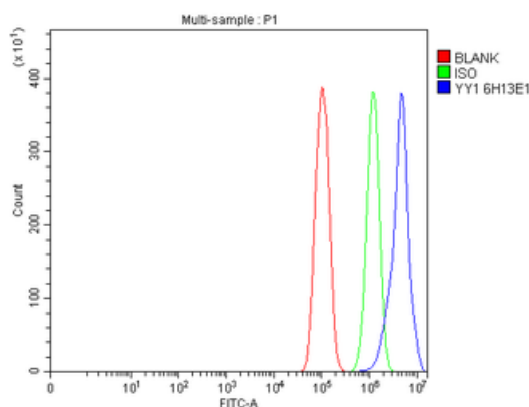
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|                            |  |
|----------------------------|--|
| <b>Tested applications</b> | FC, IHC, WB  |
| <b>Dilution range</b>      | Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x10 <sup>6</sup> cells, Human |
| <b>Cross Reactivity</b>    | No cross-reactivity with other proteins.   |
| <b>Antibody Type</b>       | Primary Antibody   |
| <b>Clone Number</b>        | B8J5G3   |
| <b>Storage</b>             | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.  |
| <b>Note</b>                | For research use only  |
| <b>Expiration Date</b>     | 12 months from date of receipt.  |



Flow Cytometry analysis of PC-3 cells using anti-YY1 antibody. Overlay histogram showing PC-3 cells (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 (1 µg/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (5-10 µg/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 µg/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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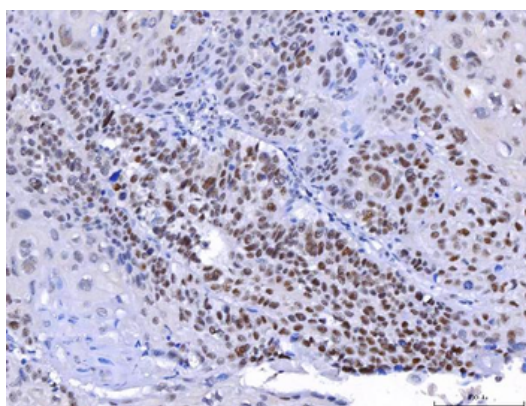
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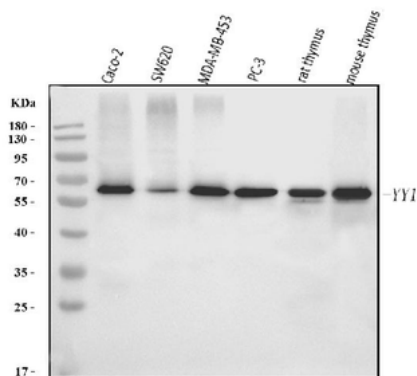
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IHC analysis of YY1 using anti-YY1 antibody. YY1 was detected in a paraffin-embedded section of human laryngeal squamous cell carcinomas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-YY1 Antibody 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 with DAB as the chromogen.



Western blot analysis of YY1 using anti-YY1 antibody. 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 µg 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 at 0.5 µg/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 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.

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