

## Rabbit anti-Human B MyB/MYBL2 Polyclonal Antibody | anti-MYBL2 antibody

Anti-B MyB/MYBL2 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                   |
|-----------|--------|------------|------------------------------------------------------------------------------------------------|
| AAA125664 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot |

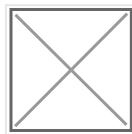
### PRODUCT SYNONYMS

B MyB/MYBL2; Polyclonal Antibody; Anti-B MyB/MYBL2 Antibody; MYBL2; BMYB; Myb-related protein B; B-Myb; Myb-like protein 2; MYB proto-oncogene like 2; anti-MYBL2 antibody

### PRODUCT SPECIFICATIONS

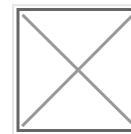
|                                                 |                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                     |
| Reactivity                                      | Human                                                                                                                                                                                                      |
| Clonality                                       | Polyclonal                                                                                                                                                                                                 |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                 |
| Specificity                                     | Rabbit IgG polyclonal antibody for B MyB/MYBL2 detection.                                                                                                                                                  |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                     | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                     |
| Applicable Applications for anti-MYBL2 antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                     |
| Immunogen                                       | E Coli-derived human B MyB/MYBL2 recombinant protein (Position: K31-R695).                                                                                                                                 |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                   | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                         | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-B MyB/MYBL2 antibody (AAA125664). Overlay histogram showing U937 cells stained with AAA125664 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-B MyB/MYBL2 Antibody (AAA125664, 1µg/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight<sup>®</sup>488 conjugated goat anti-rabbit IgG (5-10µg/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### IF (Immunofluorescence)

Figure 2. IF analysis of B MyB/MYBL2 using anti-B MyB/MYBL2 antibody (AAA125664). B MyB/MYBL2 was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-B MyB/MYBL2 Antibody (AAA125664) overnight at 4 degree C. DyLight<sup>®</sup>488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



#### WB (Western Blot)

Figure 1. Western blot analysis of B MyB/MYBL2 using anti-B MyB/MYBL2 antibody (AAA125664). 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 30ug of sample under reducing conditions. Lane 1: human Raji whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human Caco-2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-B MyB/MYBL2 antigen affinity purified polyclonal antibody (Catalog # AAA125664) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 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 B MyB/MYBL2 at approximately 100KD. The expected band size for B MyB/MYBL2 is at 100KD.

#### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-MYBL2 antibody</b> | MYBL2(V-MYB avian myeloblastosis viral oncogene homolog-like 2), also called MYB-RELATED GENE BMYB, is a protein that in humans is encoded by the MYBL2 gene. The protein encoded by this gene, a member of the MYB family of transcription factor genes, is a nuclear protein involved in cell cycle progression. Barletta et al. (1991) assigned the MYBL2 gene to chromosome Xq13. However, Noben-Trauth et al. (1996) demonstrated that this assignment was an error. Using mouse Mybl2 cDNA clones as probes, they assigned Mybl2 in an interspecific backcross panel to distal mouse chromosome 2. Using human cDNA probes in combination with fluorescence in situ hybridization analysis, they localized MYBL2 to chromosome 20q13.1, a region that is commonly deleted in myeloid disorders and shows high homology of synteny to mouse chromosome 2. It has been shown to activate the cell division cycle 2, cyclin D1, and insulin-like growth factor-binding protein 5 genes. Transcript variants may exist for this gene, but their full-length natures have not been determined. |
| <b>References</b>                                          | <ol style="list-style-type: none"><li>1. Barletta, C., Druck, T., LaForgia, S., Calabretta, B., Drabkin, H., Patterson, D., Croce, C. M., Huebner, K. Chromosome locations of the MYB related genes, AMYB and BMYB. Cancer Res. 51: 3821-3824, 1991.</li><li>2. Noben-Trauth, K., Copeland, N. G., Gilbert, D. J., Jenkins, N. A., Sonoda, G., Testa, J. R., Klempnauer, K. -H. Mybl2 (Bmyb) maps to mouse chromosome 2 and human chromosome 20q13.1. Genomics 35: 610-612, 1996.</li><li>3. Shepard, J. L., Amatruda, J. F., Stern, H. M., Subramanian, A., Finkelstein, D., Ziai, J., Finley, K. R., Pfaff, K. L., Hersey, C., Zhou, Y., Barut, B., Freedman, M., and 9 others. A zebrafish bmyb mutation causes genome instability and increased cancer susceptibility. Proc. Nat. Acad. Sci. 102: 13194-13199, 2005.</li></ol>                                                                                                                                                                                                                                                              |

#### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">4505293</a>                                                                             |
| <b>NCBI GeneID</b>                      | <a href="#">4605</a>                                                                                |
| <b>NCBI Accession #</b>                 | <a href="#">NP_002457.1</a>                                                                         |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_002466.2</a>                                                                         |
| <b>UniProt Accession #</b>              | <a href="#">P10244</a> ; <a href="#">B2RBS5</a>                                                     |
| <b>Molecular Weight</b>                 | 78,764 Da                                                                                           |
| <b>NCBI Official Full Name</b>          | myb-related protein B                                                                               |
| <b>NCBI Official Synonym Full Names</b> | v-myb myeloblastosis viral oncogene homolog (avian)-like 2                                          |
| <b>NCBI Official Symbol</b>             | MYBL2                                                                                               |
| <b>NCBI Official Synonym Symbols</b>    | BMYB; B-MYB                                                                                         |
| <b>NCBI Protein Information</b>         | myb-related protein B; myb-like protein 2; v-myb avian myeloblastosis viral oncogene homolog-like 2 |
| <b>UniProt Protein Name</b>             | Myb-related protein B                                                                               |

|                            |             |
|----------------------------|-------------|
| UniProt Gene Name          | MYBL2       |
| UniProt Synonym Gene Names | BMYP; B-Myb |
| UniProt Entry Name         | MYBB_HUMAN  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/b-myb-mybl2-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125664>