

## c-Myc

Cat.No. 343 008; Recombinant rabbit antibody, 100 µg recombinant IgG (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg purified recombinant IgG, lyophilized. For <b>reconstitution</b> add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C to -80°C until use. Antibodies should be stored at +4°C when still lyophilized. Do not freeze! For detailed information, see back of the data sheet.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> 1 : 500 <b>IHC:</b> 1 : 200 up to 1 : 500 <b>IHC-P:</b> 1 : 100 up to 1 : 500
Clone	Rb9E10
Subtype	IgG1 (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 408 to 432 from human c-Myc (UniProt Id: P01106)
Reactivity	Reacts with: human (P01106). Other species not tested yet.
Remarks	This antibody is a chimeric antibody based on the well known monoclonal mouse antibody 9E10. The constant regions of the heavy and light chains have been replaced with rabbit specific sequences. The antibody can therefore be used with standard anti-rabbit secondary reagents. It also carries a Strep-tag at the C-terminus of the heavy chain. The antibody has been expressed in mammalian cells.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

## Background

The **c-Myc** oncogene (p62 c-Myc) is a nuclear protein that is involved in the control of normal cellular proliferation and differentiation. Deregulated expression of c-Myc induces apoptosis in different cell types.

The C-terminal c-Myc amino acids are widely used in combination with eukaryotic expression vectors encoding proteins with c-Myc epitope tag.

## Selected References for 343 008

The Rab5 activator RME-6 is required for amyloid precursor protein endocytosis depending on the YTSI motif. Eggert S, Gruebl T, Rajender R, Rupp C, Sander B, Heesch A, Zimmermann M, Hoepfner S, Zentgraf H, Kins S Cellular and molecular life sciences : CMLS (2020) : . . **ICC; tested species: human**

Novel Functional Properties of Missense Mutations in the Glycine Receptor β Subunit in Startle Disease. Piro I, Eckes AL, Kasaragod VB, Sommer C, Harvey RJ, Schaefer N, Villmann C Frontiers in molecular neuroscience (2021) 14: 745275. . **ICC; tested species: mouse**

## Selected General References

c-myc copy number gain is a powerful prognosticator of disease outcome in cervical dysplasia. Kübler K et al. Oncotarget (2015) PubMed:25596731

Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. Evan GI et al. Mol. Cell. Biol. (1985) PubMed:3915782

Human c-myc onc gene is located on the region of chromosome 8 that is translocated in Burkitt lymphoma cells. Dalla-Favera R et al. Proc. Natl. Acad. Sci. U.S.A. (1982) PubMed:6961453

Isolation and characterization of c-myc, a cellular homolog of the oncogene (v-myc) of avian myelocytomatosis virus strain 29. Vennstrom B et al. J. Virol. (1982) PubMed:6284994

Access the online factsheet including applicable protocols at <https://sysy.com/product/343008> or scan the QR-code.



## FAQ - How should I store my antibody?

### Shipping Conditions

- All our antibodies and control proteins / peptides are shipped lyophilized (vacuum freeze-dried) and are stable in this form without loss of quality at ambient temperatures for several weeks.

### Storage of Sealed Vials after Delivery

- **Unlabeled** and **biotin-labeled antibodies** and **control proteins** should be stored at 4°C before reconstitution. **They must not be stored in the freezer when still lyophilized!** Temperatures below zero may cause loss of performance.
- **Fluorescence-labeled antibodies** should be reconstituted immediately upon receipt. Long term storage (several months) may lead to aggregation.
- **Control peptides** should be kept at -20°C before reconstitution.

### Long Term Storage after Reconstitution (General Considerations)

- The storage freezer must not be of the frost-free variety ("no-frost freezer"). This cycle between freezing and thawing (to reduce frost-build-up), which is exactly what should be avoided. For the same reason, antibody vials should be placed in an area of the freezer that has minimal temperature fluctuations, for instance towards the back rather than on a door shelf.
- Aliquot the antibody and store frozen (-20°C to -80°C). Avoid very small aliquots (below 20 µl) and use the smallest storage vial or tube possible. The smaller the aliquot, the more the stock concentration is affected by evaporation and adsorption of the antibody to the surface of the storage vial or tube. Adsorption of the antibody to the surface leads to a substantial loss of activity.
- The addition of glycerol to a final concentration of 50% lowers the freezing point of your stock and keeps your antibody at -20°C in liquid state. This efficiently avoids freeze and thaw cycles.

### Product Specific Hints for Storage

#### Control proteins / peptides

- Store at -20°C to -80°C.

#### Monoclonal Antibodies

- **Ascites** and **hybridoma supernatant** should be stored at -20°C up to -80°C. **Prolonged storage at 4°C is not recommended!** Unlike serum, ascites may contain proteases that will degrade the antibodies.
- **Purified IgG** should be stored at -20°C up to -80°C. Adding a carrier protein like BSA will increase long term stability. Many of our antibodies already contain carrier proteins. Please refer to the data-sheet for detailed information.

#### Polyclonal Antibodies

- **Crude antisera:** With anti-microbials added, they may be stored at 4°C. However, frozen storage (-20°C up to -80°C) is preferable.
- **Affinity purified antibodies:** Less robust than antisera. Storage at -20°C up to -80°C is recommended. Adding a carrier protein like BSA will increase long term stability. Most of our antibodies already contain carrier proteins. Please refer to the data-sheet for detailed information.

#### Fluorescence-labeled Antibodies

- Store as a liquid with 1 : 1 (v/v) glycerol at -20°C. Protect these antibodies from light exposure.

## Avoid repeated freeze-thaw cycles for all antibodies!

## FAQ - How should I reconstitute my antibody?

### Reconstitution

- All our purified antibodies are lyophilized from PBS. To reconstitute the antibody in PBS, add the amount of deionized water given in the respective datasheet. If higher volumes are preferred, add water as mentioned above and then the desired amount of PBS and a stabilizing carrier protein (e.g. BSA) to a final concentration of 2%. Some of our antibodies already contain albumin. Take this into account when adding more carrier protein. For complete reconstitution, carefully remove the lid. After adding water, briefly vortex the solution. You can spin down the liquid by placing the vial into a 50 ml centrifugation tube filled with paper.
- If desired, add small amounts of azide or thimerosal to prevent microbial growth. This is especially recommended if you want to keep an aliquot at 4°C.
- After reconstitution of fluorescence-labeled antibodies, add 1 : 1 (v/v) glycerol to a final concentration of 50%. This lowers the freezing point of your stock and keeps your antibody in liquid state at -20°C.
- Glycerol may also be added to unlabeled primary antibodies. It is a suitable way to avoid freeze-thaw cycles.
- Please refer to our **tips and hints for subsequent storage** of reconstituted antibodies and control peptides and proteins.