

RecomAb™

## c-Myc tag recombinant monoclonal antibody, clone 9E10

Catalog # RAB00175

Size 200 ug

### Specification

|                     |                                                                                                                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Rat recombinant monoclonal antibody raised against c-Myc tag.                                                                                                                                                                                                                              |
| Antibody Species    | Rat                                                                                                                                                                                                                                                                                        |
| Immunogen           | Original antibody is raised against a synthetic peptide corresponding to amino acids 408-439 of human c-myc.                                                                                                                                                                               |
| Reactivity          | Human                                                                                                                                                                                                                                                                                      |
| Specificity         | The epitope sequence, EQKLISEEDL, is located in aa 410-419 of human c-myc protein.                                                                                                                                                                                                         |
| Form                | Liquid                                                                                                                                                                                                                                                                                     |
| Purification        | Protein A affinity purification                                                                                                                                                                                                                                                            |
| Isotype             | IgG2b, kappa                                                                                                                                                                                                                                                                               |
| Recommend Usage     | Immunofluorescence<br>Immunohistochemistry (Frozen sections) (5 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5 ug/mL)<br>Immunoprecipitation (10 ug/mL)<br>Western Blot (1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (0.02% Proclin 300)                                                                                                                                                                                                                                                         |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                     |

### Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunohistochemistry (Frozen sections)
- Immunofluorescence
- Immunoprecipitation

## Gene Info — MYC

Entrez GeneID [4609](#)

Protein Accession# [P01106](#)

Gene Name MYC

Gene Alias bHLHe39, c-Myc

Gene Description v-myc myelocytomatosis viral oncogene homolog (avian)

Omim ID [113970 190080](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemia and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. [provided by RefSeq]

**Other Designations** avian myelocytomatosis viral oncogene homolog|myc proto-oncogene protein|v-myc avian myelocytomatosis viral oncogene homolog

## Pathway

- [Acute myeloid leukemia](#)
- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)

- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [TGF-beta signaling pathway](#)
- [Thyroid cancer](#)
- [Wnt signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)

- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Metabolic Syndrome X](#)
- [Mouth Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Translocation](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)