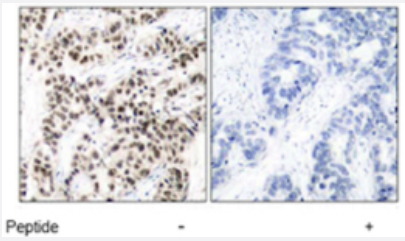
# MYC polyclonal antibody

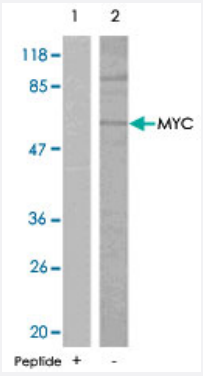
Catalog # PAB5465 Size 100 ug

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MYC polyclonal antibody (Cat # PAB5465) .




### Western Blot (Cell lysate)

Western blot analysis of extracts from ovary cancer cells , using MYC polyclonal antibody (Cat # PAB5465) .

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of MYC. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding T58 of human MYC. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |

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| | |
|---|---|
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MYC polyclonal antibody (Cat # PAB5465) .

- Western Blot (Cell lysate)

  Western blot analysis of extracts from ovary cancer cells , using MYC polyclonal antibody (Cat # PAB5465) .

## Gene Info — MYC

| | |
|---|---|
| **Entrez GeneID** | 4609 |
| **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 c ell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor th at regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemia s and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translati on 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 protei n is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this ge ne. [provided by RefSeq |

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

## Publication Reference

- Tobacco-specific nitrosamine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone promotes functional cooperation of Bcl2 and c-Myc through phosphorylation in regulating cell survival and proliferation.

  Jin Z, Gao F, Flagg T, Deng X.

  The Journal of Biological Chemistry 2004 Sep; 279(38):40209.

  Application: IP, WB, Human, A-549, H1299, H157, H460, H69, H82 cells

- The Fbw7 tumor suppressor regulates glycogen synthase kinase 3 phosphorylation-dependent c-Myc protein degradation.

  Welcker M, Orian A, Jin J, Grim JE, Harper JW, Eisenman RN, Clurman BE.

  PNAS 2004 Jun; 101(24):9085.

  Application: WB-Tr, Human, HeLa, HEK 293, HFF, U-2 OS cells

- The Max network gone mad.

  Baudino TA, Cleveland JL.

  Molecular and Cellular Biology 2001 Feb; 21(3):691.

## 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

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- 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

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- 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

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