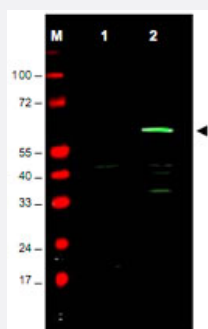


MYC-tag polyclonal antibody

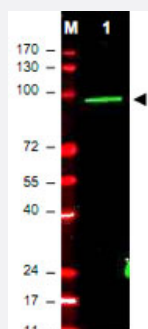
Catalog # PAB10345 Size 100 ug

Applications



Western Blot (Transfected lysate)

MYC-tag polyclonal antibody (Cat # PAB10345) detects ~60 kDa amino terminal linked MYC-tagged recombinant protein by western blot (arrowhead). Lane 1 contains ~35 ug of lysate from control 293T cells. Lane 2 contains ~35 ug of lysate from 293T cells overexpressing an N-terminal linked recombinant protein. Amino terminal linked MYC recombinant protein was the gift of Brian Conti, University of North Carolina, Chapel Hill, NC.



Western Blot (Recombinant protein)

MYC-tag polyclonal antibody (Cat # PAB10345) detects ~ 100 kDa carboxy terminal linked MYC-tagged recombinant protein present in ~35 ug of lysate by western blot (arrowhead). Carboxy terminal linked MYC recombinant protein was the gift of Zhongsheng You, Salk Institute, LaJolla, CA.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MYC-tag.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 410-419 of human MYC-tag.
Sequence	EQKLISEEDL
Host	Rabbit
Reactivity	Human

Specificity	This affinity purified antibody is directed against human c-Myc and is useful in determining its presence in various assays. This polyclonal anti-Myc-tag antibody detects overexpressed proteins containing the Myc epitope tag. This antibody recognizes the Myc-tag (Glu-Gln-Lys-Leu-Ile-Ser-Glu-Glu-Asp-Leu) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:135000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM potassium phosphate buffer, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

MYC-tag polyclonal antibody (Cat # PAB10345) detects ~60 kDa amino terminal linked MYC-tagged recombinant protein by western blot (arrowhead).

Lane 1 contains ~35 ug of lysate from control 293T cells.

Lane 2 contains ~35 ug of lysate from 293T cells overexpressing an N-terminal linked recombinant protein.

Amino terminal linked MYC recombinant protein was the gift of Brian Conti, University of North Carolina, Chapel Hill, NC.

- Western Blot (Recombinant protein)

MYC-tag polyclonal antibody (Cat # PAB10345) detects ~ 100 kDa carboxy terminal linked MYC-tagged recombinant protein present in ~35 ug of lysate by western blot (arrowhead).

Carboxy terminal linked MYC recombinant protein was the gift of Zhongsheng You, Salk Institute, LaJolla, CA.

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

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 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

Publication Reference

- [Protein phosphatase PPM1B inhibits DYRK1A kinase through dephosphorylation of pS258 and reduces toxic tau aggregation.](#)

Ye Hyung Lee, Eunju Im, Minju Hyun, Joongkyu Park, Kwang Chul Chung.

The Journal of Biological Chemistry 2021 Jan; 296:100245.

Application: IP, WB-Tr, Human, Rat, H19-7, HEK 293, SH-SY5Y cells

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](#)