

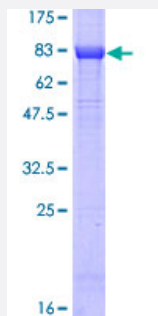
Full-Length

MYC (Human) Recombinant Protein (P01)

Catalog # H00004609-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MYC full-length ORF (ENSP00000259523, 1 a.a. - 439 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPLNVSFTNRNYDL DYDSVQPYFYCDEEENFYQQQQQSELQPPAPSEDWKKFELLTPPLSPS
RRSGLCSPSYAVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNI
QDCMWSGFSA AAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSV
VFPYPLNDSSSPKSCASQDSSAFSPSSDLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQE
DEEIDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYP
AAKRVKLD SVRVLRQISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELE
NNEKAPKVILKKATAYILSVQAEEQKLISEEDLLRKRREQLKHKLEQLRNSCA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

75.2

Interspecies Antigen Sequence

Mouse (91); Rat (90)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MYC

Entrez GeneID	4609
GeneBank Accession#	ENST00000259523
Protein Accession#	ENSP00000259523
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

- [Heat shock factor 1 \(HSF1\) specifically potentiates c-MYC-mediated transcription independently of the canonical heat shock response.](#)

Meng Xu, Ling Lin, Babul Moni Ram, Omprakash Shriwas, Kun-Han Chuang, Siyuan Dai, Kuo-Hui Su, Zijian Tang, Chengkai Dai.

Cell Reports 2023 May; 42(6):112557.

Application: Pull-Down, Recombinant proteins

- [Proline Hydroxylation Primes Protein Kinases for Autophosphorylation and Activation.](#)

Sang Bae Lee, Aram Ko, Young Taek Oh, Peiguo Shi, Fulvio D'Angelo, Brulinda Frangaj, Antonius Koller, Emily I Chen, Timothy Cardozo, Antonio Iavarone, Anna Lasorella.

Molecular Cell 2020 Aug; 79(3):376.

Application: WB, Human, U87 cells

- [Analysis of binding interfaces of the human scaffold protein AXIN1 by peptide microarrays.](#)

Harnoš J, Ryneš J, Víšková P, Trantírková SF, Ešner LB, Trantírek L, Bryja V.

The Journal of Biological Chemistry 2018 Oct; 293(42):16337.

Application: Peptide array, Recombinant protein

- [NCYM promotes calpain-mediated Myc-nick production in human MYCN-amplified neuroblastoma cells.](#)

Shoji W, Suenaga Y, Kaneko Y, Islam SM, Alagu J, Yokoi S, Nio M, Nakagawara A.

Biochemical and Biophysical Research Communications 2015 Jun; 461(3):501.

Application: WB, Human, Purified Protein

- [A matrix approach to guide IHC-based tissue biomarker development in oncology drug discovery.](#)

Smith NR, Womack C.

The Journal of Pathology 2014 Jan; 232(2):190.

Application: WB, Recombinant protein

- [An Electrochemical Immunosensor based on gold nanoparticle tags for picomolar detection of c-Myc oncoprotein.](#)

He JL, Tian YF, Cao Z, Zou W, Sun X.

Sensors and Actuators B: Chemical 2013 May; 181:835.

Application: EPair-Re, Human, Human serum

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](#)