

Recombinant Human c-Myc protein (Tagged)
ab235798

1 Image

Description

Product name	Recombinant Human c-Myc protein (Tagged)		
Purity	> 85 % SDS-PAGE.		
Expression system	Escherichia coli		
Accession	<u>P01106</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSE LQPPAPSEDIW KKFELLPTPPLSPSRRSGLCSPSYAVTPFSLRGDNDGG GGSFSTADQLE MVTELLGGDMVQNQSFICDPDDETFIKNIIQDCMWSGFSA AKLVSEKLA SYQAARKDSGSPNPARGHSVCSTSSLYQLDLAAAASECI DPSVVPYPLN DSSSPKSCASQDSSAFSPSSDLLSSTESSPQGSPEPL VLHEETPPTTSS DSEEEQEDEEEIDVVSVEKRQAPGKRSESGSPSAGGHS KPPHSPLVLKRC HVSTHQHNYAAPPSTRKDYPAAKRVKLDSVRVLRQISNNR KCTSPRSSDT EENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKA PKVVILKKAT AYILSVQAEQKLISEEDLLRKRREQLKHKLEQLRNSCA		
Predicted molecular weight	49 kDa		
Amino acids	1 to 439		
Tags	His tag N-Terminus		
Additional sequence information	N-terminal His-tag and C-terminal Myc-tag.		

Specifications

Our **Abpromise guarantee** covers the use of **ab235798** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function Participates in the regulation of gene transcription. Binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3'. Seems to activate the transcription of growth-related genes.

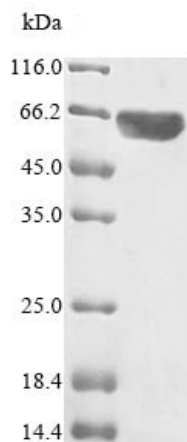
Involvement in disease Note=Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors. Note=A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia. Translocation t(8;12)(q24;q22) with BTG1. Defects in MYC are a cause of Burkitt lymphoma (BL) [MIM:113970]. A form of undifferentiated malignant lymphoma commonly manifested as a large osteolytic lesion in the jaw or as an abdominal mass. Note=Chromosomal aberrations involving MYC are usually found in Burkitt lymphoma. Translocations t(8;14), t(8;22) or t(2;8) which juxtapose MYC to one of the heavy or light chain immunoglobulin gene loci.

Sequence similarities Contains 1 basic helix-loop-helix (bHLH) domain.

Post-translational modifications Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome. Ubiquitinated by the SCF(FBXW7) complex when phosphorylated at Thr-58 and Ser-62, leading to its degradation by the proteasome. In the nucleoplasm, ubiquitination is counteracted by USP28, which interacts with isoform 1 of FBXW7 (FBW7alpha), leading to its deubiquitination and preventing degradation. In the nucleolus, however, ubiquitination is not counteracted by USP28, due to the lack of interaction between isoform 4 of FBXW7 (FBW7gamma) and USP28, explaining the selective MYC degradation in the nucleolus. Also polyubiquitinated by the DCX(TRUSS) complex.

Cellular localization Nucleus > nucleoplasm. Nucleus > nucleolus.

Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab235798.

SDS-PAGE - Recombinant Human c-Myc protein
(Tagged) (ab235798)

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