

Product datasheet

Recombinant Human c-Myc protein ab84132

★★★★★ [1 Abreviews](#) [7 References](#) [2 Images](#)

Description

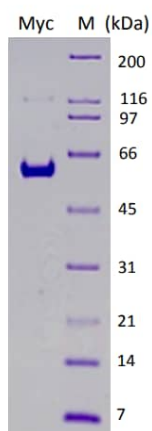
Product name	Recombinant Human c-Myc protein
Purity	> 75 % Affinity purified. Purified by an affinity column in combination with FPLC chromatography.
Expression system	Escherichia coli
Accession	<u>NM_002467</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MPLNVSFTNRNYDL DYDSVQPYFYCDEEE</p> <p>NFYQQQQQSELQPPAPSEDIWKKFELLTPPLSPSRRSG</p> <p>LCSPSYAVVTP FSLRGDND</p> <p>GGGGSFSTADQLEMVTELLGGDMVNQSFICDPDETIFK</p> <p>NIIQDCMWSG FSAAAKLV</p> <p>SEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAA</p> <p>ASECIDPSVVF PYPLNDSS</p> <p>SPKSCASQDSSAFSPSSDILLSSTESSPQGSPEPLVLHE</p> <p>ETPPTSSDSE EEQEDEEE</p> <p>IDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRC</p> <p>HVSTHQHNYAA PPSTRKDY</p> <p>PAAKRVKLDsvrvlrqisnnrkctsprssdteenvkrRT</p> <p>HNVLERQRRNE LKRSFFAL</p> <p>RDQIPELENNEKAPKVVLKKATAYILSVQAEEQKLISEEDL</p> <p>LRKRREQL KHKLEQLR NSCA</p>
Predicted molecular weight	50 kDa
Amino acids	1 to 439
Tags	His tag C-Terminus

Specifications

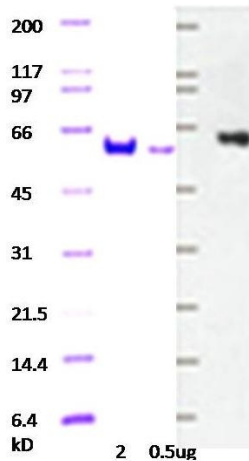
Our **Abpromise guarantee** covers the use of **ab84132** in the following tested applications.

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

Applications	Western blot SDS-PAGE
Form	Liquid
Preparation and Storage	
Stability and Storage	<p>Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 7.9</p> <p>Constituents: Potassium chloride, 0.0154% DTT, Tris HCl, EDTA, 20% Glycerol</p> <p>Protein is stored in 20 mM Tris-Cl (pH 7.5), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.</p>
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	<p>Note=Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors.</p> <p>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.</p> <p>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.</p>
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Post-translational modifications	<p>Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome.</p> <p>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.</p>
Cellular localization	Nucleus > nucleoplasm. Nucleus > nucleolus.
Images	



SDS-PAGE - Recombinant Human c-Myc protein
(ab84132)



Western blot - Recombinant Human c-Myc protein
(ab84132)

SDS-PAGE with Coomassie Blue staining (Left) and Western-blot
(Right)

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