abcam

Product datasheet

Recombinant human c-Myc protein (Active) ab169901

★★★★★ 3 Abreviews 7 References

描述

产品名称	重组人c-Myc蛋白(Active)
生物活性	Reprogramming mouse fibroblast cell to iPS cells using 3 retroviral vectors, which carry Oct4, Sox2 & Klf4 with this protein as replacement assay. 8 µg/ml of human Klf4-11R were added in reprogramming medium every 48 hours for 20 days. Intracellular protein penetration rate was tested using DyLight labeled ab169901 protein at 1 µg/ml for 30 min incubation for human fibroblast cells at 37^{o}C. More than 90% cell will be positive one hour after sample incubation.
纯度	> 93 % SDS-PAGE. ab169901 was expressed in E. coli as inclusion bodies, solubilized, refolded, and further purified.
内毒素水平	= 5.000 Eu/µg
表达系统	Escherichia coli
Accession	P01106-2
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MDFFRVVENQQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQ QQSELQPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYVAVTPFSLRGD NDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCMW SGFSAAAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAA SECIDPSVVFPYPLNDSSSPKSCASQDSSAFSPSSDSLLSSTESSPQGSP EPLVLHEETPPTTSSDSEEEQEDEEEIDVVSVEKRQAPGKRSESGSPSAG GHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRVKLDSVRVLRQ ISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELE NNEKAPKVVILKKATAYILSVQAEEQKLISEEDLLRKRREQL

KHKLEQLR NSCAESGGGGSPGRRRRRRRRRRR

预测分子量	53 kDa
氨基酸	1 to 454
额外的序列信息	Please note that ab169901 is isoform 2 of UniProt accession P01106. (NP_002458.2) C-terminal 11R tag : ESGGGGSPGRRRRRRRRRRR

技术指标

Our **Abpromise guarantee** covers the use of **ab169901** in the following tested applications.

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

应用	Western blot Functional Studies SDS-PAGE Mass Spectrometry
形式	Liquid
补充说明	ab169901 is fused to an eleven arginine (11R) membrane penetration domain at the C terminus to enable penetratation across the plasma membrane of mammalian cells. Cellular Toxicity: This recombinant protein was tested on mouse embryonic stem cells up to 50 µg/ml in culture medium. Suggested reprogramming protein concentration is between 0.5 to 8 ug / ml for both human and mouse fibroblast cells applications.

制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 7.50 Constituent: 0.24% Tris Proprietary formulation of NaCl, KCl, CaCl2, MgCl2, Arginine, DTT and glycerol. This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能	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.
疾病相关	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.

序列相似性	Contains 1 basic helix-loop-helix (bHLH) domain.
翻译后修饰	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.
细胞定位	Nucleus > nucleoplasm. Nucleus > nucleolus.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors