

Active Recombinant Human MYC Protein, His-GST-tagged

Cat. No. MYC-3317H Lot. No. (See product label)

SPECIFICATION

Product Overview Active Recombinant Human MYC Protein(184-454 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.

Species Human

Source E.coli

ProteinLength 184-454 aa

Form PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Bio-activity

MYC (Myc proto-oncogene protein) is a nuclear phosphoprotein that binds specific sequence of DNA. MYC functions as a transcription factor and regulates transcription of target genes. It has been proven that c-Myc protein is intracellularly associated with TBP (TATA-binding protein) of the TFIID transcription initiation complex; besides, TRRAP (Transformation/transcription domain-associated protein) is thought to be an essential cofactor for the MYC. Thus a binding ELISA assay was conducted to detect the interaction of MYC with TBP and TRRAP. Briefly, recombinant human MYC were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to TBP-coated and TRRAP microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-MYC pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution

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to the wells and read at 450nm immediately. The binding activity of MYC with TBP and TRRAP was shown, and this effect was in a dose dependent manner.

Molecular Mass	60.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>98%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MYC v-myc myelocytomatosis viral oncogene homolog (avian) [Homo sapiens]
Official Symbol	MYC
Synonyms	MYC; v-myc myelocytomatosis viral oncogene homolog (avian); v myc avian myelocytomatosis viral oncogene homolog; myc proto-oncogene protein; bHLHe39; c Myc; proto-oncogene c-Myc; transcription factor p64; class E basic helix-loop-helix protein 39; avian myelocytomatosis viral oncogene homolog; v-myc avian myelocytomatosis viral oncogene homolog; myc-related translation/localization regulatory factor; MRTL; c-Myc;
Gene ID	4609
mRNA Refseq	NM_002467

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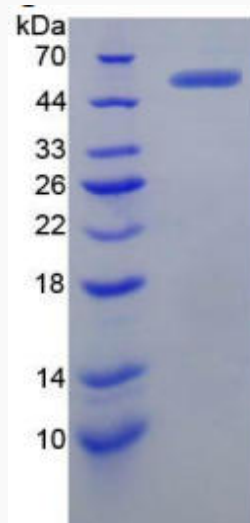
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Protein Refseq NP_002458

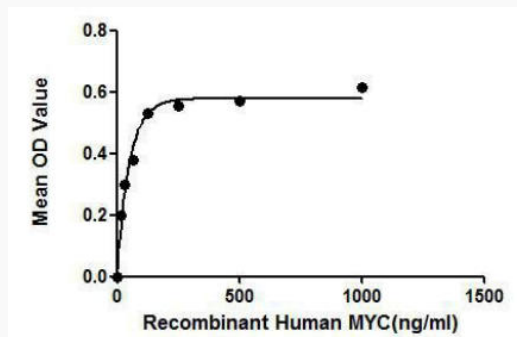
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UniProt ID P01106

SDS-PAGE



Activity



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