

Phospho-c-Myc (Thr58/Ser62) Polyclonal Antibody**CATALOG #:** 3501-100**AMOUNT:** 100 µg**LOT #:** _____**HOST:** Rabbit**IMMUNOGEN:** Synthetic peptide surrounding Thr58/Ser62 of human c-Myc.**SPECIES REACTIVITY:** human, mouse, rat**FORMULATION:**

100 µg (0.2 mg/ml) affinity purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

BACKGROUND:

The transcription factor c-Myc is a short-lived nuclear phosphoprotein involved in cell proliferation, differentiation and cancer regulation. c-Myc binds to DNA and activates transcription as a heterodimeric complex with Max. c-Myc is phosphorylated *in vitro* by MAP Kinase at Ser62 and *in vivo* c-Myc is phosphorylated at both Thr58 and Ser62. Mutation of The58 and Ser62 to Ala inhibits the ability of c-Myc to activate transcription, suggesting that phosphorylation regulates the ability of c-Myc to stimulate transcription. c-Myc appears to regulate multiple aspects of growth control: it promotes cell proliferation in the presence of cdk inhibitors and induces apoptosis with overexpression in serum deprived cells.

APPLICATIONS AND USAGE:

The antibody can be used for Western blot analysis (0.5-4 µg/ml), immunoprecipitation (2-4 µg/ml), and immunohistochemistry (10-20 µg/ml). However, the optimal conditions should be determined individually.

SPECIFICITY:

The Phospho-c-Myc (Thr58/Ser62) antibody detects only phosphorylated Thr58/Ser62 of c-Myc. It does not react with non-phosphorylated c-Myc.

FOR RESEARCH USE ONLY! NOT TO BE USED IN HUMANS.**RELATED PRODUCTS:**

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies