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# Rabbit Anti-phospho-C-Myc (Ser62) antibody

SL23392R

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| **Product Name:** | phospho-C-Myc (Ser62) |
| **Chinese Name:** | 磷酸化致癌基因C-Myc抗体 |
| **Alias:** | Myc(Phospho-Ser62); Myc(Phospho-S62); p-Myc(S62); p-Myc(S62); AU016757; Avian myelocytomatosis viral oncogene homolog; bHLHe39; c Myc; Cellular myelocytomatosis oncogene; MGC105490; MRTL; Myc protein; Myc proto oncogene protein; Myc-related translation/localization regulatory factor; Myc2; myca; Myelocytomatosis oncogene a; Myelocytomatosis oncogene; Niard; Nird; Oncogene Myc; Protooncogene homologous to myelocytomatosis virus; RNCMYC; Transcription factor p64; Transcriptional regulator Myc-A; v myc avian myelocytomatosis viral oncogene homolog; v myc myelocytomatosis viral oncogene homolog (avian); V-Myc avian myelocytomatosis viral oncogene homolog; v-myc myelocytomatosis viral oncogene homolog (avian); zc-myc; MYC_HUMAN. |
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| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 49kDa |
| **Cellular localization:** | The nucleus |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated Synthesised phosphopeptide derived from human C-Myc around the phosphorylation site of Ser62:PL(p-S)PS |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year |

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| | when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. [provided by RefSeq, Jul 2008].<br><br>**Function:**<br>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.<br><br>**Subunit:**<br>Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as a heterodimer with MAX. Interacts with TAF1C and SPAG9. Interacts with PARP10. Interacts with KDM5A and KDM5B. Interacts (when phosphorylated at Thr-58 and Ser-62) with FBXW7. Interacts with PIM2 (By similarity). Interacts with NO66.<br><br>**Subcellular Location:**<br>Nucleus, nucleoplasm. Nucleus, nucleolus.<br><br>**Post-translational modifications:**<br>Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome. Phosphorylation at Ser-329 by PIM2 leads to the stabilization of MYC (By similarity). Phosphorylation at Ser-62 by CDK2 prevents Ras-induced senescence.<br>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.<br><br>**DISEASE:**<br>Note=Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors.<br>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. |

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| | 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.<br><br>**Similarity:**<br>Contains 1 basic helix-loop-helix (bHLH) domain.<br><br>**SWISS:**<br>P01106<br><br>**Gene ID:**<br>4609<br><br>**Database links:**<br><br>Entrez Gene: 4609Human<br><br>Entrez Gene: 17869Mouse<br><br>Entrez Gene: 24577Rat<br><br>Omim: 190080Human<br><br>SwissProt: P01106Human<br><br>SwissProt: P01108Mouse<br><br>SwissProt: P09416Rat<br><br>Unigene: 202453Human<br><br>Unigene: 2444Mouse<br><br>Unigene: 12072Rat<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

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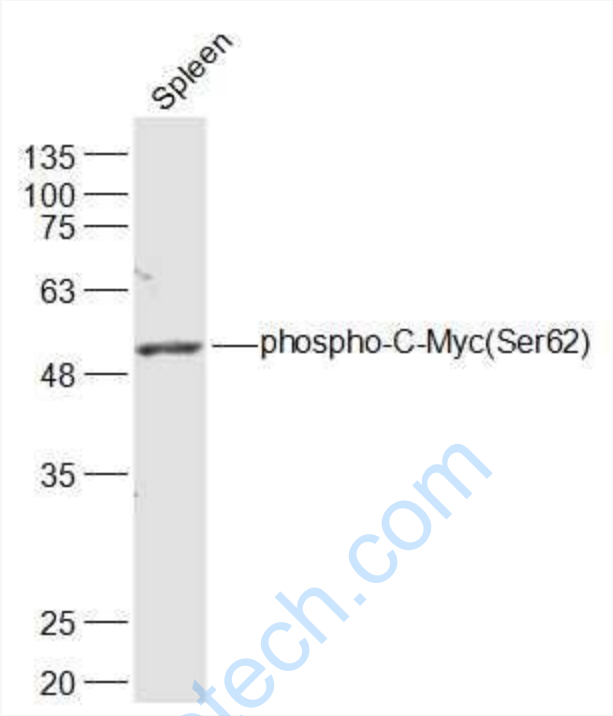
| **Picture:** |  <br>Sample:<br>Spleen (Rat) Lysate at 40 ug<br>Primary: Anti-phospho-C-Myc(Ser62) (SL23392R) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 49 kD<br>Observed band size: 49 kD |