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**Product Name: c-Myc (phospho Ser62) Rabbit Polyclonal Antibody****Catalog #: APRab04479**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Rabbit polyclonal Antibody  |
| <b>Host</b>          | Rabbit  |
| <b>Application</b>   | WB,IHC,ICC/IF,ELISA   |
| <b>Reactivity</b>    | Human,Mouse,Rat   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Phosphorylated  |
| <b>Isotype</b>       | IgG   |
| <b>Clonality</b>     | Polyclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                       |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b>  | Affinity purification   |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000 |
| <b>Molecular Weight</b> | 50,(also ~60kDa in some samples)  |

**Antigen Information**

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | MYC  |
| <b>Alternative Names</b> | MYC; BHLHE39; Myc proto-oncogene protein; Class E basic helix-loop-helix protein 39; bHLHe39; Proto-oncogene c-Myc; Transcription factor p64 |
| <b>Gene ID</b>           | 4609.0   |
| <b>SwissProt ID</b>      | P01106   |
| <b>Immunogen</b>         | The antiserum was produced against synthesized peptide derived from human Myc around the phosphorylation site of Ser62. AA range:31-80       |

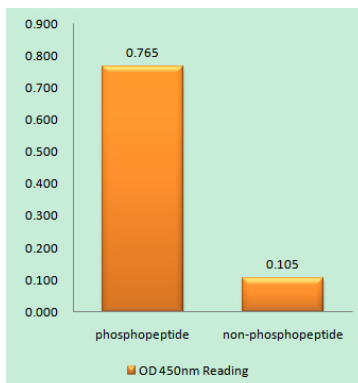
**Background**

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],disease: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.,disease:Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors.,function:Participates in the regulation of gene transcription. Binds DNA both in a non-specific manner and also specifically to recognizes the core sequence 5'-CAC[GA]TG-3'. Seems to activate the transcription of growth-related genes.,online information:Myc entry,PTM:Phosphorylated by PRKDC.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit: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.,

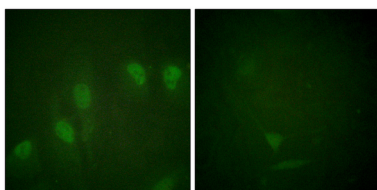
## Research Area

Stem cell pathway; Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA; WNT;WNT-T CELL;β-Catenin; ErbB/HER; MAPK\_ERK\_Growth;MAPK\_G\_Protein; PI3K/Akt; Protein\_Acetylation

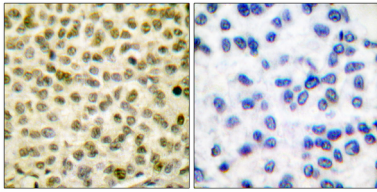
## Image Data



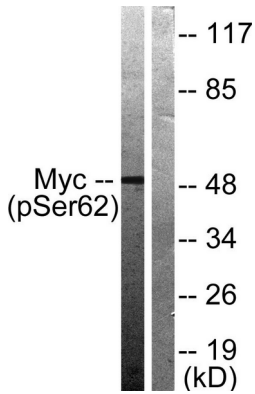
Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using Myc (Phospho-Ser62) Antibody



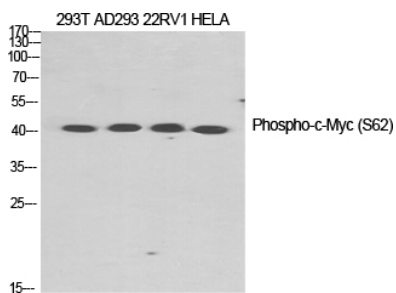
Immunofluorescence analysis of HeLa cells treated with Forskolin 40nM 30 ', using Myc (Phospho-Ser62) Antibody. The picture on the right is blocked with the phospho peptide.



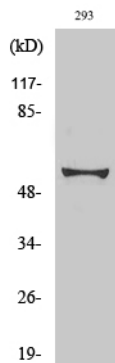
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Myc (Phospho-Ser62) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Forskolin 40nM 30', using Myc (Phospho-Ser62) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-c-Myc (S62) Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of 293 cells using Phospho-c-Myc (S62) Polyclonal Antibody diluted at 1: 1000