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KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1228

Specification

KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P01106
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 51 kDa; observed, 57 kDa KDa**
Gene Name	**MYC**
Aliases	**MYC Proto-Oncogene, BHLH Transcription Factor; BHLHe39; C-Myc; MYCC; V-Myc Avian Myelocytomatosis Viral Oncogene Homolog; Class E Basic Helix-Loop-Helix Protein 39; Myc Proto-Oncogene Protein; Transcription Factor P64; Proto-Oncogene C-Myc; Myc-Related Translation/Localization Regulatory Factor; Avian Myelocytomatosis Viral Oncogene Homolog; V-Myc Myelocytomatosis Viral Oncogene Homolog; BHLHE39; MRTL**
Immunogen	**A synthesized peptide derived from human Phospho-c-Myc (S62)**

KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody - Additional Information

Gene ID	**4609**

Other Names
Myc proto-oncogene protein, Class E basic helix-loop-helix protein 39, bHLHe39, Proto-oncogene c-Myc, Transcription factor p64, MYC, BHLHE39

KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody - Protein Information

Name MYC

Synonyms BHLHE39

Function
Transcription factor that binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3' (PubMed:24940000, PubMed:25956029). Activates the transcription of growth-related genes (PubMed:<a

href="http://www.uniprot.org/citations/24940000" target="_blank">24940000, PubMed:25956029). Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed:24940000, PubMed:25956029). Regulator of somatic reprogramming, controls self-renewal of embryonic stem cells (By similarity). Functions with TAF6L to activate target gene expression through RNA polymerase II pause release (By similarity). Positively regulates transcription of HNRNPA1, HNRNPA2 and PTBP1 which in turn regulate splicing of pyruvate kinase PKM by binding repressively to sequences flanking PKM exon 9, inhibiting exon 9 inclusion and resulting in exon 10 inclusion and production of the PKM M2 isoform (PubMed:20010808).

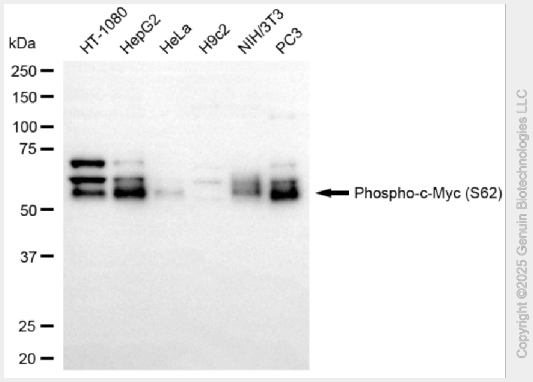
Cellular Location
Nucleus, nucleoplasm. Nucleus, nucleolus. Nucleus. Cytoplasm Chromosome. Note=Association with chromatin is reduced by hyperphosphorylation (PubMed:30158517) Localization to the nucleolus is dependent on HEATR1 (PubMed:38225354)

KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Phospho-c-Myc (S62) Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-phospho-c-Myc (S62) antibody (Cat#AGI1228). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-phospho-c-Myc (S62) antibody (Cat#AGI1228, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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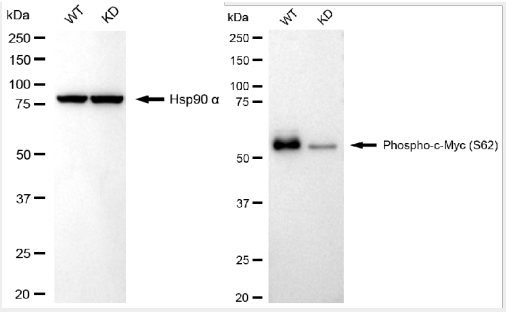
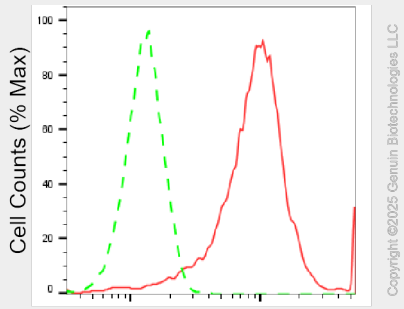
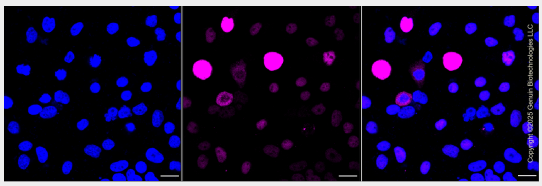


Western blotting analysis using anti-phospho-c-Myc (S62) antibody (Cat#AGI1228). Phospho-c-Myc (S62) expression in wild type (WT) and MYC knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-phospho-c-Myc (S62) antibody (Cat#AGI1228, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Phospho-c-Myc (S62)-Alexa Fluor® 647

Flow cytometric analysis of Phospho-c-Myc (S62) expression in HeLa cells using Phospho-c-Myc (S62) antibody (Cat#AGI1228, 1:2,000). Green, isotype control; red, Phospho-c-Myc (S62).



Immunocytochemical staining of HeLa cells with anti-Phospho-c-Myc (S62) antibody (Cat#AGI1228, 1:1,000). Nuclei were stained blue with DAPI; Phospho-c-Myc (S62) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.