Phospho-MYC-T58 pAb

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<th>Catalog No.</th>
<th>AP0080</th>
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<td>Applications</td>
<td>WB, IHC, IF</td>
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<td>Cross-reactivity</td>
<td>Human, Mouse, Rat</td>
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<td>Category</td>
<td>Phosphorylated Antibodies</td>
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<td>Observed MW</td>
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<td>Calculated MW</td>
<td>48kDa/50kDa</td>
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**Immunogen Information**

- **Immunogen**: A phospho specific peptide corresponding to residues surrounding T58 of human MYC
- **Gene ID**: 4609
- **Swiss prot**: P01106
- **Synonyms**: MYC; MRTL; MYCC; bHLHe39; c-Myc; myc proto-oncogene protein

**Product Information**

- **Source**: Rabbit
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

**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.

**Recommended Dilutions**

- **WB**: 1:500 - 1:2000
- **IHC**: 1:50 - 1:200
- **IF**: 1:50 - 1:100

**Immunohistochemistry**

- Immunohistochemistry of paraffin-embedded human breast cancer using P-MYC-T58 antibody (AP0080) at dilution of 1:100 (40x lens).
- Immunohistochemistry of paraffin-embedded mouse lung using P-MYC-T58 antibody (AP0080) at dilution of 1:100 (40x lens).
- Immunohistochemistry of paraffin-embedded human lung cancer using P-MYC-T58 antibody (AP0080) at dilution of 1:100 (40x lens).
Immunohistochemistry of paraffin-embedded mouse testis using P-MYC-T58 antibody (AP0080) at dilution of 1:100 (40x lens).

Immunofluorescence analysis of U2OS cells using Phospho-MYC-T58 antibody (AP0080). Blue: DAPI for nuclear staining.