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## Mouse Anti-c-Myc Monoclonal Antibody

CLX229AP  
CLX229F  
CLX229HP

**Clone:** 9E10

**Isotype:** Mouse IgG1

**Specificity:**

The antibody 9E10 may be used to detect the c-Myc tag.

The c-myc gene (8q24 on human chromosome) is the cellular homologue of the v-myc gene originally isolated from an avian myelocytomatosis virus. The c-Myc protein is a transcription factor (nuclear localization). c-Myc is commonly activated in a variety of tumor cells and plays an important role in cellular proliferation, differentiation, apoptosis and cell cycle progression. The phosphorylation of c-Myc has been investigated and previous studies have suggested a functional association between phosphorylation at Thr58/Ser62 by glycogen synthase kinase 3, cyclin-dependent kinase, ERK2 and C-Jun N-terminal Kinase (JNK) in cell proliferation and cell cycle regulation. In normal cells the expression of c-Myc is tightly regulated but in human cancers c-Myc is frequently deregulated. c-Myc is also essential for tumor cell development in vasculogenesis and angiogenesis that distribute blood throughout the cells.

**Immunogen:** Synthetic peptide sequence (AEEQKLISEEDLL) corresponding to the C-terminal region of human c-Myc.

**Species Reactivity:** Human, Recognizes fusion proteins in all species.

**Application:** Flow Cytometry; Immunoprecipitation; Western Blotting; Immunohistochemistry (paraffin sections).

**Conjugate Preparation:**

**FITC:** The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.

**HRP:** The purified antibody is conjugated with Horseradish Peroxidase (HRP) of high specific activity and RZ=3.

**Presentation:**

**Purified:** 0.1 mg (1 mg/mL) purified IgG buffered in PBS with 15 mM sodium azide, approx. pH 7.4. (Purified from hybridoma culture supernatant by protein-A affinity chromatography).

**FITC:** 0.1 mg (1 mg/mL) FITC conjugated IgG buffered in PBS with 15 mM sodium azide, approx. pH 7.4.

**HRP:** 0.1 mg (1 mg/mL) HRP conjugated IgG buffered in PBS with 0.01% (w/v) thimerosal, approx. pH 7.4.

*Continued Overleaf.....*

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**Storage / Stability:**

Store in the dark at 2-8°C. Do not freeze all formats. Avoid prolonged exposure to light of FITC conjugate. Do not use after expiration date stamped on vial label.

**Usage:****Purified:**

Flow Cytometry – Recommended dilution of 1-5 µg/ml. Membrane permeabilization is required.

Immunoprecipitation - Recommended dilution of 1-5 µg/ml. Not suitable for immunoprecipitation of native c-Myc protein.

Western Blotting - Recommended dilution of 0.5-2 µg/ml. Positive control: c-Myc tagged protein.

Immunohistochemistry (paraffin sections) - Recommended dilution of 5-10 µg/ml. Positive tissue: perfused brain sections, liver, spleen.

**FITC:**

Flow Cytometry – Recommended working dilution of 1:200. Membrane permeabilization is required.

**HRP:**

Western Blotting - Recommended dilution of 1:500. Positive control: c-Myc tagged protein.

**\*Optimal working concentrations should be determined by each investigator.**

**References:**

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