

30-2743: Anti-c-Myc tag Purified

Clonality :	Monoclonal
Clone Name :	9E10
Application :	FACS, IP, WB, IHC
Reactivity :	Tagged fusion proteins in all species, Human
Gene :	MYC
Gene ID :	4609
Uniprot ID :	P01106
Format :	Purified
Alternative Name :	MYC proto-oncogene bHLH, MRTL, MYCC
Immunogen Information :	Synthetic peptide sequence (AEEQKLISEEDLL) corresponding to the C-terminal region of human c-Myc.

Description

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.

Specificity :The antibody 9E10 can be used to detect the c-Myc tag.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography.
Content :	Concentration: 1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Immunohistochemistry (paraffin sections): Recommended dilution: 5-10 $\mu\text{g/ml}$; positive tissue: perfused brain sections, liver, spleen.

Immunoprecipitation: Recommended dilution: 1-5 $\mu\text{g/ml}$; this antibody is not suitable for immunoprecipitation of native c-Myc protein.

Flow cytometry: Intracellular or extracellular staining, depending on particular expression. Recommended dilution: 1-4 $\mu\text{g/ml}$.

Western blotting: Recommended dilution: 0,5-2 $\mu\text{g/ml}$; positive control: c-Myc tagged protein.