

c-Myc

Cat.No. 343 011C2; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized, fluorescence-labeled with Oyster [®] 488. Rabbit serum albumin was added for stabilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Either add 1:1 (v/v) glycerol, then aliquot and store at -20°C until use, or store aliquots at -80°C without additives. Reconstitute immediately upon receipt! Avoid bright light when working with the antibody to minimize photo bleaching of the fluorescent dye. The mounting agent Aquatex [®] (Merck Chemicals) is not compatible with Oyster dyes!
Applications	WB: N/A IP: N/A ICC: 1 : 500 IHC: yes IHC-P/FFPE: yes
Label	Oyster 488
Clone	9E10
Subtype	IgG1 (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 408 to 432 from human c-Myc (UniProt Id: P01106)
Epitop	Epitop: AA 410 to 419 from human c-Myc (UniProt Id: P01106)
Reactivity	Reacts with: human (P01106). Other species not tested yet.
Specificity	Specific for c-Myc.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **c-Myc** oncogene (p62 c-Myc) is a nuclear protein that is involved in the control of normal cellular proliferation and differentiation. Deregulated expression of c-Myc induces apoptosis in different cell types.

The C-terminal c-Myc amino acids are widely used in combination with eukaryotic expression vectors encoding proteins with c-Myc epitope tag.

Selected General References

c-myc copy number gain is a powerful prognosticator of disease outcome in cervical dysplasia. Kübler K, Heinenberg S, Rudlowski C, Keyver-Paik MD, Abramian A, Merkelbach-Bruse S, Büttner R, Kuhn W, Schildhaus HU *Oncotarget* (2015) 6(2): 825-35.

Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. Evan GI, Lewis GK, Ramsay G, Bishop JM *Molecular and cellular biology* (1985) 5(12): 3610-6.

Human c-myc onc gene is located on the region of chromosome 8 that is translocated in Burkitt lymphoma cells. Dalla-Favera R, Bregni M, Erikson J, Patterson D, Gallo RC, Croce CM *Proceedings of the National Academy of Sciences of the United States of America* (1982) 79(24): 7824-7.

Isolation and characterization of c-myc, a cellular homolog of the oncogene (v-myc) of avian myelocytomatosis virus strain 29. Vennstrom B, Sheiness D, Zabielski J, Bishop JM *Journal of virology* (1982) 42(3): 773-9.