c-Myc/ MYC/MRTL Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710007

(See product label for lot information)

Clone/PAD: 27HCLC
Isotype: IgG
Gene ID: 4609
Protein Acc. no.: P01106
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation
PBS + 0.09% sodium azide

Application
For use in Western Blotting and Immunofluorescence.

Reactivity
This antibody is specific for human c-myc

Immunogen
Recombinant protein

Immunogen sequence
Amino acids 1-164, 401-439.

Sequence Identity
Human

Sequence Homology
Mouse

Expected Reactivity
Based on sequence identity and similarity, reactivity to Human and Mouse are expected.

Storage
2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date
Expires one year from date of receipt when stored as instructed.

Background
c-Myc is a member of a family of closely related genes which also includes N-myc, L-myc, P-myc, R-myc, S-myc, and B-myc (1). It was first identified as a protooncogene that was involved in the formation of leukemias (1, 2). c-myc protein is involved in the control of cell proliferation, transformation and differentiation (1, 3). This protein is expressed during embryonic development and is amplified and/or overexpressed in variety of tumors (4). The cellular localization of this protein is predominantly nuclear (5).

References

1. DePinho, R.A., et al. (1991) myc family oncogenes in the development of normal and neoplastic cells. Adv. Cancer Res. 57:1-46.

2. Evan, G.I., et al. (1985) Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. Mol. Cell. Biol. 5(12):3610-3616.

3. Lukas, J., et al. (1996) Deregulated expression of E2F family members induces S-phase entry and overcomes p16INK4A-mediated growth suppression. Mol. Cell. Biol. 16(3):1047-1057.

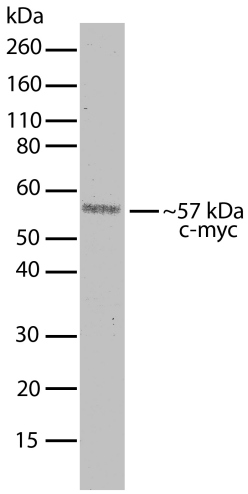
4. Gosney, J.R., et al. (1990) c-myc oncoprotein in bronchial carcinoma: expression in all major morphological types. Anticancer Res. 10(3):623-628.

5. Steiner, P., et al. (1995) Identification of a myc-dependent step during the formation of active G1 cyclin-cdk complexes. The EMBO Journal 14(19):4814-4826.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

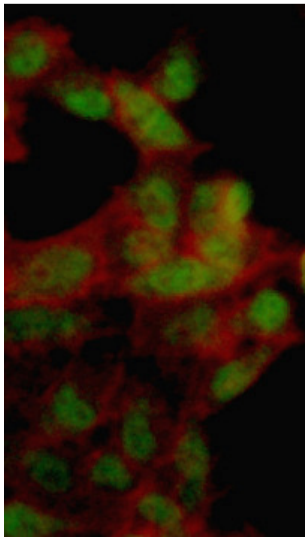
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	Jurkat	0.5-2 µg/ml
Immunofluorescence	Human	HeLa	5-10 µg/ml



Western Blot of c-Myc labeled with c-Myc Rabbit Recombinant Oligoclonal Antibody (Cat. No. 710007)

c-Myc Rabbit Recombinant Oligoclonal Antibody (1 µg/ml) was used to label c-Myc in Jurkat Cell Lysate (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).



Immunocytochemistry of HeLa cells labeled with c-Myc recombinant rabbit oligonoclonal antibody (Cat. No. 710007).

HeLa cells were labled with c-myc recombinant rabbit oligoclonal antibody, 10µg/ml (Cat. No. 710007). Alexa Fluor® 488 goat anti-rabbit (Cat. No. A11008) was used at 1:1000 as secondary antibody. Composit image of AF488 (green) and Alexa Fluor® 594 Phalloidin (red) is shown. The cellular localization is predominantly nuclear.

Explanation of symbols

Symbol	Description	Symbol	Description
REF	Catalogue Number	LOT	Batch code
RUO	Research Use Only	IVD	*In vitro* diagnostic medical device
	Use by		Temperature limitation
	Manufacturer	EC REP	European Community authorised representative
[-]	Without, does not contain	[+]	With, contains
Protect from Light	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

For Research Use Only. Not for human or animal therapeutic or diagnostic use.