

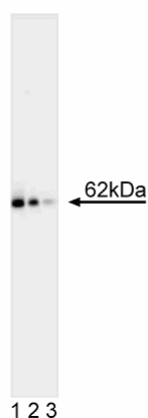
Technical Data Sheet

Purified Mouse Anti-Human c-Myc with Control**Product Information**

Material Number:	551101
Size:	50 µg
Reactivity:	QC Testing: Human
Component:	51-1485GR
Description:	Purified Mouse Anti-Human c-Myc
Size:	50 µg (1 ea)
Clone Name:	9E10
Immunogen:	Human c-Myc Peptide
Isotype:	Mouse IgG1
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Component:	51-16526N
Description:	Jurkat Cell Lysate
Size:	50 µg (1 ea)
Concentration:	1.0 mg/ml
Storage Buffer:	SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)

Description

The myc gene family contains at least seven closely related genes, c-myc, N-myc, L-myc, P-myc, R-myc, S-myc, and B-myc. C-myc plays a role in proliferation, transformation, and differentiation. It is expressed during embryonic development, in a wide variety of adult tissues, and is amplified in many tumors, particularly lung, breast, cervical and colon carcinomas. Cellular localization has been described as nuclear and/or cytoplasmic. C-myc has three sequence motifs in the carboxy terminus, a leucine zipper, a helix-loop-helix, and a basic region. It forms sequence-specific (CACGTG) DNA binding heterodimers with max, a helixloop-helix/leucine zipper protein. Both the leucine zipper domain and the helixloop-helix motif of c-myc contribute to heterodimer formation. DNA binding of myc-max dimers results in a conformational change of the DNA and transcriptional activation. C-myc migrates at 62 kDa in SDS-PAGE. Clone 9E10 recognizes human c-myc. A synthetic peptide corresponding to a C-terminal epitope of the human c-myc protein (AEEQKLISEEDL) was used as an immunogen.



Western blot analysis of c-myc. Lysate from Jurkat cells was probed with anti-c-myc (clone 9E10, Comp. No. 51-1485GR) at concentrations of 2.0 (lane 1), 1.0 (lane 2), and 0.5 µg/ml (lane 3). C-myc is identified as a band of 62 kDa.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunohistochemistry-paraffin	Reported
Electron microscopy	Reported
Fluorescence microscopy	Reported
Immunohistochemistry-frozen	Not Recommended

Recommended Assay Procedure:

It is particularly useful for western blot analysis of myc-tagged recombinant proteins, and recombinant c-myc. Jurkat control lysate [50 µg (1 µg/µl)] is provided as a western blot positive control (Comp. No. 51-16526N; store lysate at -20 °C). Additional control lysate is sold separately.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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