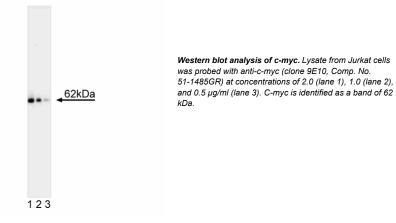
Technical Data Sheet **Purified Mouse Anti-Human c-Myc with Control**

Product Information					
Material Number:	551102				
Size:	150 µg				
Reactivity:	QC Testing: Human				
Component:	51-1485GR				
Description:	Purified Mouse Anti-Human c-Myc				
Size:	50 µg (3 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 cytopasmic. 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.



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			
Fluorescence microscopy	Reported			
Electron 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 μ g (1 μ g/ μ l)] 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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