

Purified anti-c-Myc Antibody (Previously Covance catalog# MMS-164P)

Catalog# / Size	904401 / 100 µL
Clone	9E11
Regulatory Status	RUO
Other Names	Myc proto-oncogene protein, proto-oncogene c-Myc, transcription factor p64, class E basic helix-loop-helix protein 39, avian myelocytomatosis viral oncogene homolog, v-myc, myc-related translation/localization
Previously	Covance Catalog# MMS-164P
Isotype	Mouse IgG2a
Description	c-Myc is a naturally occurring protein that is often used as a protein modification and tag in order to simplify the labeling and detection of proteins. Antibodies against c-Myc recognize both naturally occurring c-Myc and overexpressed proteins containing the c-Myc epitope tag fused to targeted proteins allowing for specific detection in western blotting, immunoprecipitation, and immunostaining techniques.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution + 0.03% Thimerosal.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	WB - Quality tested ICC, IHC-P, IP - Verified Purification - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by western blotting. For western blotting, the suggested use of this reagent is 0.25 - 1.0 µg/mL. For immunocytochemistry, a concentration range of 1.25 - 5.0 µg/mL is recommended. For immunohistochemistry on formalin-fixed paraffin-embedded tissue sections, a concentration range of 2.5 - 5.0 µg/mL is suggested. For immunoprecipitation, the suggested use of this reagent is 2.5 µg/test. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The 9E11 monoclonal antibody recognizes the sequence 408-420 AEEQKLISEEDL of human c-myc. This clone recognizes a non-specific band in BL21 E. coli lysates BioLegend offers two clones against c-Myc, 9E10 and 9E11. When both clones were tested in parallel for WB, ICC, and IP, each clone performed similarly, with 9E11 showing slightly better performance for each application.
Application References	1. Halme A, <i>et al.</i> 2004. <i>Cell</i> . 116:405. 2. Kolodziej P, Young R. 1991. <i>Meth. Enzymol.</i> 194:508. 3. Locker AP, <i>et al.</i> 1989. <i>Brit. J. Cancer.</i> 60:669.
(PubMed link indicates BioLegend citation)	
Product Citations	1. Wu Y, <i>et al.</i> 2016. <i>Nat Struct Mol Biol.</i> 10.1038/nsmb.3284. PubMed

Antigen Details

Cell Type	Embryonic Stem Cells
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Cycle/DNA Replication, Immunology, Stem Cells, Transcription Factors
Gene ID	4609

Related Protocols

[Immunocytochemistry Staining Protocol](#)

[Western Blotting Protocol](#)

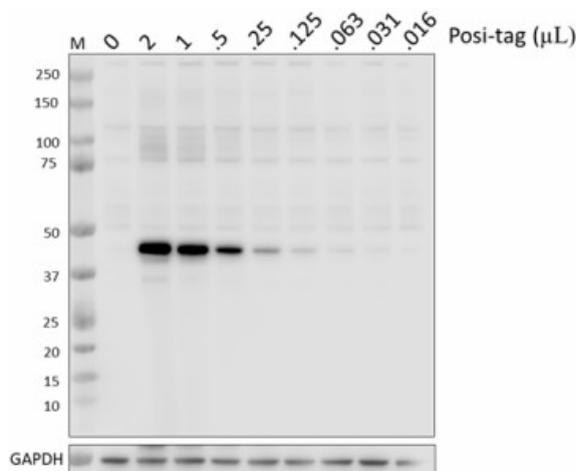
[Immunoprecipitation Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

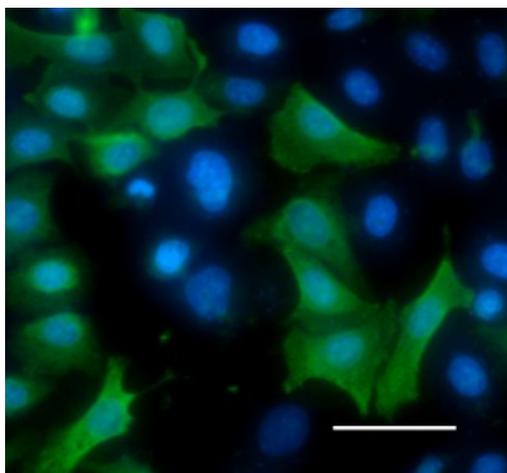
Other Formats

Purified anti-c-Myc

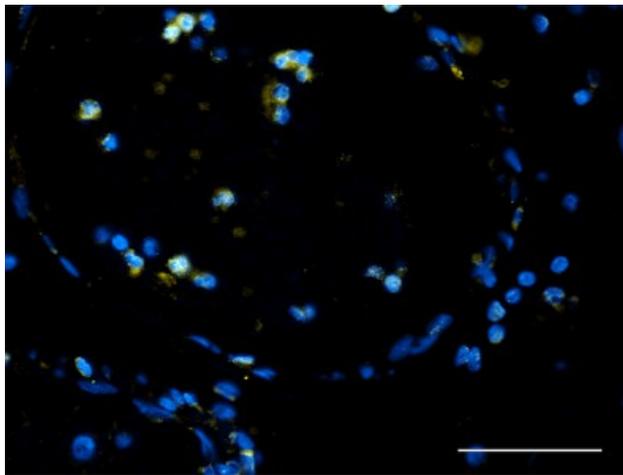
Product Data



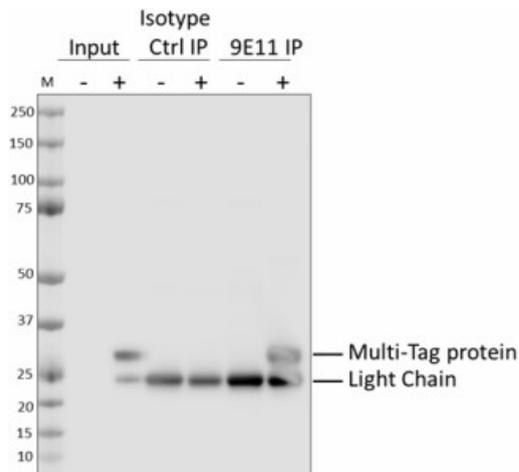
Whole cell extracts (15 μ g total protein) from HeLa cells mixed with the indicated amount of recombinant Posi-tag epitope tag protein were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane, and probed with 1.0 μ g/mL purified anti-c-Myc antibody (clone 9E11) overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG antibody at a 1:3000 dilution. Direct-Blot™ HRP anti-GAPDH antibody (Cat. No. 607904) was used as a loading control at a 1:25000 dilution (lower). Lane M: Molecular weight marker.



ICC staining of purified anti-c-Myc antibody (clone 9E11) on HeLa cells transfected with multi-tag plasmid containing c-Myc epitope sequence. The cells were fixed with 4% PFA, permeabilized with a buffer containing 0.1% Triton X-100, and blocked with 5% fetal bovine serum in PBS for 1 hour. The cells were then incubated with 1 μ g/mL of the primary antibody overnight at 4°C, followed by incubation with 2.5 μ g/mL of Alexa Fluor® 488 goat anti-mouse IgG (green) for one hour at room temperature. Nuclei were counterstained with DAPI (blue), and the slide was mounted with ProLong™ Gold Antifade Mountant. The image was captured with a 20X objective. Scale bar: 100 μ m



IHC staining of anti-c-Myc antibody (clone 9E11) on formalin-fixed paraffin-embedded human bladder tissue. Following antigen retrieval using 0.1M Tris-buffered saline w/ Tween 20 (Cat. No. 925501), the tissue was incubated with 1 µg/mL of the primary antibody overnight at 4°C, followed by incubation with 2.5 µg/mL of Alexa Fluor® 647 goat anti-mouse IgG for one hour at room temperature. Nuclei were counterstained with DAPI, and the slide was mounted with ProLong® Gold Antifade Mountant. The image was captured with a 20x objective. Scale bar: 100 µm



Whole cell extracts (250 µg total protein) prepared from HeLa cells mock-transfected (-) or transfected (+) with multi-tag plasmid containing c-Myc epitope sequence were immunoprecipitated overnight with 2.5 µg of purified mouse IgG1, κ isotype ctrl antibody (Cat. No. 400101) or purified anti-c-Myc antibody (clone 9E11). The resulting IP fractions and whole cell extract input (6%) were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane and probed with purified anti-c-Myc antibody (clone 9E11) at 1.0 µg/mL (1:1000 dilution). Lane M: Molecular weight marker.

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