

Anti-Myc Tag, clone 4A6, HRP conjugate

Monoclonal Antibody

Cat. # 16-213

Lot # 32426

pack size: 100 µL

Store at -20°C

FOR RESEARCH USE ONLY



Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB	H	IgG1	C-terminal	M	Varies	NP_002458

Background

Myc-Tag is a short synthetic peptide sequence derived from C-terminal region of human c-myc that is used as an epitope tag. The Myc tag can be cloned either upstream or downstream of the target gene, resulting in a fusion protein that allows efficient purification, detection, and localization of target proteins. The relatively small size of this tag vs. other commonly used tags such as GST (30 kDa) makes it less likely to interfere with target protein structure or function. The myc epitope tag is widely used to detect expression of recombinant proteins in bacterial, yeast, insect, and mammalian systems.

Presentation

Purified mouse monoclonal IgG1 conjugated to horseradish peroxidase (HRP) in buffer containing: 50% storage buffer (PBS, 0.05% Kathon®, 0.2 mg/mL BSA) and 50% glycerol.

Specificity

Recognizes and is specific for recombinant proteins containing the Myc epitope tag (EQKLISEEDL) in a variety of sequence contexts. Also recognizes human Myc.

Species Cross-reactivity

Human. Other species cross-reactivity not tested.

Immunogen

KLH-conjugated, synthetic peptide corresponding to amino acids 410-420 (MEQKLISEEDL) of human Myc. Clone 4A6.

Molecular Weight

Varies depending upon the protein which is tagged.

Method of Purification

Protein G Purified

Storage and Handling

Stable for 1 year at -20°C from date of receipt.

Handling Recommendations: Upon first thaw, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance. Note: Variability in freezer temperatures below -20°C may cause glycerol containing solutions to become frozen during storage.

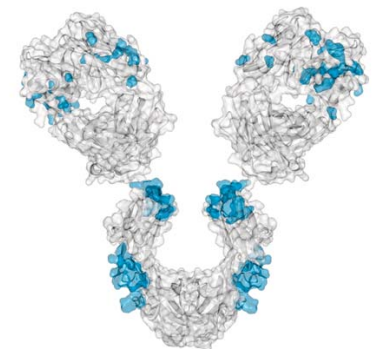
Control

Positive control for human Myc: Widespread expression including A431 cell lysate, ovarian cancer cell lysate, or breast carcinoma tissue. Myc fusion protein expressed in cells.

Quality Control Testing

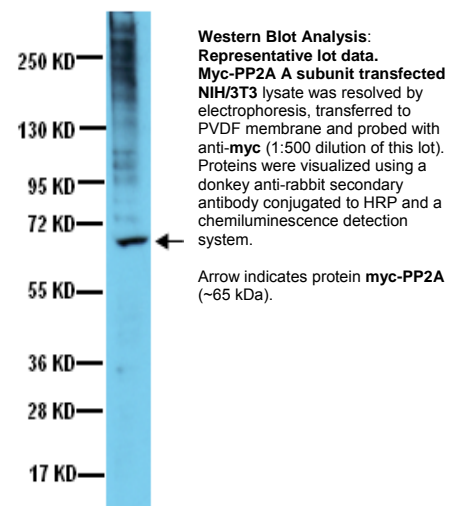
Evaluated by Western Blot on **Myc-PP2A A subunit transfected NIH/3T3 lysates**.

Western Blot Analysis: 1:500 dilution of this antibody detected **myc-PP2A** on 10 µg of **Myc-PP2A A subunit transfected NIH/3T3 lysates**.



References

1. Evan, G. I., et al. (1985). *Mol. Cell. Biol.* 12: 3610-3616.



APPLICATION LEGEND: WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence
IH Immunohistochemistry (Tissue)

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

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PROTOCOL**Western Blot**

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a lysate containing a Myc-tagged protein (cell lysis buffer: 50mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150 mM NaCl; 1 mM EDTA; 1 mM PMSF; 1 µg/mL each aprotinin, leupeptin, pepstatin; 1 mM Na₃VO₄; 1 mM NaF) and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Block the blotted nitrocellulose in freshly prepared TBS containing 5% nonfat dry milk (Catalog # 20-200), (TBS-MLK) for 60 minutes at room temperature with constant agitation.
3. Incubate the nitrocellulose with a **1:1000-1:5000 dilution of anti-Myc Tag, clone 4A6, HRP conjugate**, diluted in freshly prepared TBS-MLK with agitation for 1.5 hours at room temperature or overnight at 4°C.
4. Wash the nitrocellulose twice with water.
5. Wash the nitrocellulose in TBS-0.05% Tween®-20 for 10 minutes.
6. Rinse the nitrocellulose in 4-5 changes of water.
7. Use detection method of choice (enhanced chemiluminescence was used).

RELATED PRODUCTS (specific)

cat #	description
06-549	■ Anti-Myc Tag
05-724	■ Anti-Myc Tag, clone 4A6
05-724MG	■ Anti-Myc Tag, clone 4A6
16-219	■ Anti-Myc Tag, clone 4A6, agarose conjugate
16-224	■ Anti-Myc Tag, clone 4A6, Alexa Fluor® 488 conjugate
16-212	■ Anti-Myc Tag, clone 4A6, biotin conjugate
16-225	■ Anti-Myc Tag, clone 4A6, Alexa Fluor® 555 conjugate
16-213	■ Anti-Myc Tag, clone 4A6, HRP conjugate
05-419	■ Anti-Myc Tag, clone 9E10
16-170	■ Anti-Myc Tag, clone 9E10, biotin conjugate

RELATED PRODUCTS (non-specific)

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	■ Blot Quick Blocker Membrane Blocking Agent 175G

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

Please visit www.millipore.com for additional product information, test data and references

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