Revised: 04–May–2001

Anti–C-Myc Antibodies

A-21280 anti–c-myc, mouse monoclonal 289-19510
A-21281 anti–c-myc, chicken IgY fraction

Quick Facts

Storage upon receipt:
- 4°C or –20°C in aliquots
- Avoid freeze–thaw cycles

Working concentration: 1–10 μg/mL

Introduction

Epitope tagging is a powerful and versatile strategy for detecting and purifying proteins expressed by cloned genes. Protein expression vectors are typically engineered with a nucleotide sequence that encodes the peptide epitope tag. Typically, a gene is cloned in-frame relative to the coding sequence for the epitope tag, and upon expression, a fusion protein with the epitope tag is synthesized. Detection of the epitope-tagged fusion protein and/or purification is mediated by antibodies to the engineered peptide, thus eliminating the need for antibodies to proteins from each newly cloned gene.

Molecular Probes now offers two antibodies to c-myc, which is commonly used in epitope tagging.[1] Our monoclonal anti–c-myc antibody (A-21280), clone 239-19510 ($IgG_{1,\kappa}$), was raised against the peptide AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA that corresponds to amino acids 408–439 of the human c-myc protein. The chicken anti–c-myc antibody (A-21281) was raised against the peptide EQKLISEEDL. These antibodies specifically react with the C-terminal epitope (AEEQKLISEEDL)[2] of the human c-myc protein encoded in many expression vectors. Chicken secondary antibodies have gained popularity because they demonstrate a lower level of nonspecific binding. Chicken antibodies lack a classic "Fc" domain and will not bind to protein A or protein G, nor will they bind to mammalian IgG Fc receptors.

Molecular Probes now offers an extremely broad selection of secondary immunoreagents for use in fluorescence microscopy and flow cytometry. We prepare conjugates of species-specific anti–IgG antibodies, as well as conjugates of avidin, streptavidin, NeutrAvidin™ biotin-binding protein and protein A. Please consult our Web site (www.probes.com) or contact our Technical Assistance Department for more information about these products.

Materials

Contents

The mouse anti–c-myc monoclonal antibody is supplied in a unit size of 100 µL as a 1 mg/mL solution in phosphate-buffered saline (PBS), pH 7.2, containing 5 mM sodium azide and 0.1% bovine serum albumin (BSA). The chicken anti–c-myc polyclonal antibody is supplied in a unit size of 100 µL as a 1 mg/mL solution in PBS, pH 7.2, containing 0.1% sodium azide.

Storage

These products, when stored undiluted at 4°C, should be stable for at least three months. For longer storage, divide the solution into single-use aliquots and freeze at -20°C. Frozen aliquots are stable for at least six months. AVOID REPEATED FREEZING AND THAWING.

Application

Because staining protocols vary with application, the appropriate dilutions of antibody should be determined empirically. A final concentration of 1–10 µg/mL should be satisfactory for most immunohistochemical applications.[3]

References

1. Methods Enzymol 194, 508–519 (1991); **2.** Mol Cell Biol 5, 3610–3616 (1985); **3.** *Short Protocols in Molecular Biology, 2nd Edition*, F.M. Ausubel *et al.*, Eds., John Wiley and Sons (1992) pp. 14-24–14-30.

Product List *Current prices may be obtained from our Web site or from our Customer Service Department.*

Cat #	Product Name	Unit Size
A-21280	anti-c-myc, mouse monoclonal 289-19510 *1 mg/mL*	100 µL
A-21281	anti-c-myc, chicken IgY fraction *1 mg/mL*	100 µL

Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — **www.probes.com** — for the most up-to-date information

Molecular Probes, Inc.
PO Box 22010, Eugene, OR 97402-0469
Phone: (541) 465-8300 ● Fax: (541) 344-6504

Customer Service: 7:00 am to 5:00 pm (Pacific Time)
Phone: (541) 465-8338 ● Fax: (541) 344-6504 ● order@probes.com

Toll-Free Ordering for USA and Canada:
Order Phone: (800) 438-2209 ● Order Fax: (800) 438-0228

Technical Assistance: 8:00 am to 4:00 pm (Pacific Time)
Phone: (541) 465-8353 ● Fax: (541) 465-4593 ● tech@probes.com

Molecular Probes Europe BV
PoortGebouw, Rijnsburgerweg 10
2333 AA Leiden, The Netherlands
Phone: +31-71-5233378 ● Fax: +31-71-5233419

Customer Service: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5236850 ● Fax: +31-71-5233419
eurorder@probes.nl

Technical Assistance: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5233431 ● Fax: +31-71-5241883
eurotech@probes.nl

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