

Anti- β -Galactosidase, Rabbit IgG Fraction (A-11132)

Quick Facts

Storage upon receipt:

- 4°C or -20°C in aliquots
- Avoid freeze-thaw cycles

bit against *E. coli* β -galactosidase, demonstrates high specificity for the enzyme and is suitable for immunological methods that require high titer and specificity such as immunoblotting (western or dot blot), ELISA, immunoprecipitation and immunohistochemistry. For detection of this rabbit antibody, Molecular Probes offers a variety of second-step reagents labeled with biotin or with a wide range of fluorophores.

Introduction

The *Escherichia coli* gene *lacZ* encoding β -galactosidase is an important reporter gene for detecting the expression of recombinant genes in animal cells. In situations where enzymatic detection of β -galactosidase is not practical, anti- β -galactosidase antibody has been widely used. Anti- β -galactosidase antibody can also be used for purification of fusion proteins by immunoprecipitation or immunoadsorption. Furthermore, anti- β -galactosidase antibody has been shown to be the preferred analytical tool for light microscopic evaluation of *lacZ* gene transfer,¹ and the β -galactosidase/anti- β -galactosidase complex has been used as a model to assess the feasibility of a high-pressure immunodesorption process.²

Molecular Probes offers a highly purified anti- β -galactosidase rabbit IgG fraction (A-11132). This antibody, raised in rab-

Contents and Storage

Anti- β -galactosidase antibody is supplied in a unit size of 0.5 mL as a 2 mg/mL solution in phosphate-buffered saline, pH 7.2 (PBS) containing 5 mM sodium azide. When this product is stored undiluted at 4°C, it is 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

The appropriate dilution of antibody for a particular application should be determined empirically. We suggest trying dilutions of about 1:5000 to 1:50,000 for your initial experiments.

References

1. Human Gene Ther 8, 929 (1997);
2. Biochim Biophys Acta 1292, 61 (1996).

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

Cat #	Product Name	Unit Size
A-11132	anti- β -galactosidase, rabbit IgG fraction *2 mg/mL*	0.5 mL

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

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