

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER)**Beta Galactosidase Antibody Peroxidase Conjugated**
Catalog # ASR4641**Specification**

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Product InformationHost
Conjugate
Clonality
Application
Application Note

Rabbit Peroxidase (Horseradish)
Polyclonal
WB, IHC, E, I, LCI
Anti-Beta Galactosidase Peroxidase Conjugated Antibody has been tested by ELISA and Western blot and is suitable for dot blot, immunofluorescence microscopy, immunoprecipitation, conjugation and most immunological methods requiring high titer and specificity. The antibody recognizes both frozen tissue sections, paraffin embedded tissue and 4% paraformaldehyde fixed tissue for most immunohistochemical analysis. A 1:5,000 dilution has been reported to be successful for staining by immunoblot of beta-galactosidase fusion proteins after transfer using a semi-dry transfer apparatus. A 1:1,500 dilution has been reported to detect beta-galactosidase in adult rat spinal cord tissue after infection with helper-dependent adenovirus expressing lacZ. In this particular experiment, tissue was perfused with 4% paraformaldehyde and cryostat-cut (35 µm) to produce free-floating sections. A 1:5,000 dilution has been reported to be successful for staining of brain sections from transgenic mice expressing nuclear beta-galactosidase when assayed by immunofluorescence microscopy. A 1:5,000 dilution has been reported for immunofluorescent staining of methanol fixed, devitellinized Drosophila embryos. Although a wide range of conditions was reported to be effective, a 1:10,000 dilution was noted to show no background and to be suitable for double labeling experiments. Optimal titers for other applications should be determined by the researcher.

Physical State

Lyophilized

Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Beta Galactosidase (E.coli)
Reconstitution Volume	1.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Additional Information

Gene ID 945006

Purity

This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, and anti-Rabbit Serum as well as purified and partially purified Beta Galactosidase [E.coli]. Cross reactivity against Beta Galactosidase from other tissues and species may occur but have not been specifically determined. Very low background staining has been reported in various assays.

Storage Condition

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Protein Information

Name lacZ

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Images**Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - Background**

Anti Beta Galactosidase Antibody recognizes the enzyme beta galactosidase, or β -galactosidase, that is a component of assays used frequently in genetics, molecular biology (see X-gal) for a blue white screen, and other life sciences. IPTG induces production of β -galactosidase by binding and inhibiting the lac repressor. Since it is highly expressed and accumulated in lysosomes in senescent cells, it is used as a senescence biomarker both in vivo and in vitro in qualitative and quantitative assays, despite its limitations. Anti-beta Galactosidase Antibody is ideal for investigators involved in enzyme research.