

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody
Beta Galactosidase Antibody
Catalog # ASR4568**Specification****Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Beta-Gal 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 1:1,500 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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Full length native Beta Galactosidase isolated from E.coli
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody - Additional Information**Gene ID** 945006**Purity**

Beta-Galactosidase Antibody 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-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 - Protein Information

Name lacZ

Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody - 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 - Images**Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody - 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.