



## Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - 200-4336

**Code:** 200-4336

**Size:** 10 mg

**Product Description:** Anti-BETA GALACTOSIDASE (E.coli) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - 200-4336

**Concentration:** 10.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

<b>Label</b>	Peroxidase (Horseradish)
<b>Host</b>	Rabbit
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Reconstitution Volume</b>	1.0 mL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Preservative</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Storage Condition</b>	Beta Galactosidase [E.coli], BGAL
<b>Synonyms</b>	rabbit anti-Beta Galactosidase Antibody Peroxidase Conjugation, HRP conjugated rabbit anti-Beta Galactosidase Antibody, rabbit anti-beta gal HRP conjugated antibody
<b>Application Note</b>	Suitable for immunoblotting (western or dot blot), ELISA, 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.
<b>Background</b>	Anti Beta Galactosidase Antibody recognizes the enzyme beta galactosidase, or -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 -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.
<b>Purity And Specificity</b>	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.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:10,000 - 1:50,000
<b>Western Blot</b>	1:2,000 - 1:5,000
<b>Immunohistochemistry</b>	1:500 - 1:2,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Beta Galactosidase (E.coli)
<b>Related Products</b>	

200-301-268

Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268

610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.