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Product datasheet for TA397021S

lacZ Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**WB**: 1:2,000 - 1:10,000 **IHC**: 1:1,000 - 1:5,000 **ELISA**: 1:10,000 - 1:50,000
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Beta Galactosidase (E.coli)
Specificity:	Anti-BETA GALACTOSIDASE Antibody, Biotin Conjugated, 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-Biotin, anti-Rabbit Serum as well as purified and partially purified beta-Galactosidase [E.coli]. Cross reactivity against β-Galactosidase from other sources may occur but have not been specifically determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Biotin
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	P00722

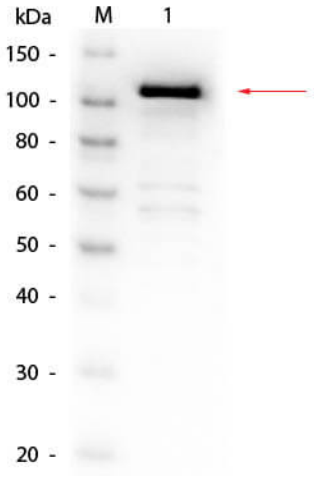
View online »

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.

Synonyms: rabbit anti Beta Galactosidase Antibody Biotin Conjugated

Note: Anti-Beta Galactosidase Biotin Conjugated Antibody has been tested by Western blot and is suitable for ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency. 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.

Product images:



Western Blot of Rabbit anti-Beta Galactosidase (E. Coli) Antibody Biotin Conjugated. Lane 1: Beta Galactosidase. Load: 50 ng per lane. Primary antibody: Beta Galactosidase (E. Coli) Antibody Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 116 kDa, 116 kDa for Beta Galactosidase.