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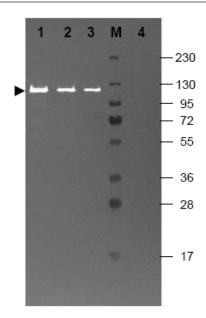
| R1064 | Polyclonal Antibody to Beta-galactosidase tag - Serum |
|------------------|---|
| Alternate names: | Beta-Gal Fusion Protein, Beta-Gal tag, JW0335, Lactase, b0344, lacZ tag |
| Quantity: | 2 ml |
| Concentration: | 75 mg/ml (by refractometry) |
| Background: | Beta-galactosidase is coded by a gene (lac z) in the lac operon of Escherichia coli. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides. Activation by cations seems to be substrate dependent. K+, Na+, NH4+, Rb+, Cs+ and Mn++ all activate enzyme activity based upon the substrate used. |
| Uniprot ID: | <u>P00722</u> |
| NCBI: | <u>AP_000996.1</u> |
| GenelD: | <u>945006</u> |
| Host: | Rabbit |
| Immunogen: | Beta-galactosidase from E. coli |
| Format: | State: Lyophilized serum Purification: Purified from monospecific antiserum by Delipidation and Defribination. Buffer System: 0.02 M Potassiumphosphate, 0.15 M Sodium chloride, pH 7.2 with 0.01% Sodium azide as preservative Reconstitution: Restore with 2.0 ml of deionized water (or equivalent). |
| Applications: | Suitable for Immunoblotting (Western or Dot blot), ELISA, Immunoprecipitation and most immunological methods requiring high titer and specificity. <u>Recommended Dilutions:</u> ELISA: 1/65,000. Western blot: 1/500-1/2,000. IHC: 1/500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Beta Galactosidase [E. coli]. Cross reactivity against Beta Galactosidase from other sources may occur but have not been specifically determined. |
| Storage: | Store vial at 2-8°C prior to restoration. Centrifuge product if not completely clear after standing at room temperature. This product is stable for one month at 2-8°C as an undiluted liquid. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Shelf life: one year from despatch. |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

ORIGENE R1064: Polyclonal Antibody to Beta-galactosidase tag - Serum

Pictures:

Figure 1. Western blotting using Fluorescein conjugated anti-Betagalactosidase antibody shows a band at ~117 kDa (lanes 1 - 3) corresponding to 60 ng, 30 ng and 15 ng, respectively of b-Gal present in partially purified preparations (arrowhead). Lane 4 shows no cross reactivity with proteins present in a non-specific control E. coli lysate. Proteins were resolved on a 4-20% Trisglycine gel by SDS-PAGE and transferred to Nitrocellulose and blocking using blocking buffer for fluorescent Western blotting. The membrane was probed with Fluorescein conjugated anti-Betagalactosidase (Cat.-No. R1064F) diluted to 1/10,000. Reaction occurred for 2 hours at room temperature. Molecular weight estimation was made by comparison to a prestained MW marker in lane M. Fluorescence image was captured using the VersaDoc® Imaging System. Other detection systems will yield similar results.



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