

Polyclonal Antibody to Maltose Phosphorylase - Biotin

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| Catalog No.: | R1151B |
| Quantity: | 10 mg |
| Concentration: | 10.0 mg/ml (by UV absorbance at 280 nm) |
| Background: | Maltose phosphorylase is a dimeric enzyme that catalyzes the conversion of maltose and inorganic phosphate into beta D glucose 1 phosphate and glucose without requiring any cofactors, such as pyridoxal phosphate. The enzyme is part of operons that are involved in maltose/malto oligosaccharide metabolism. |
| Host: | Goat |
| Immunogen: | Maltose Phosphorylase [E.coli]. |
| Format: | <p>State: Lyophilized purified Ig fraction.</p> <p>Purification: Multistep process.</p> <p>Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 10 mg/ml Bovine Serum Albumin (BSA, IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative.</p> <p>Label: Biotin – Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)</p> <p>Molar Ratio: 10-20 BAC molecules per Rabbit IgG molecule.</p> <p>Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).</p> |
| Applications: | <p>Suitable for Immunoblotting, ELISA, Immunohistochemistry, Immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency.</p> <p>Recommended Dilutions: This product has been assayed against 1.0 µg of Maltose Phosphorylase in a standard capture ELISA using Peroxidase Conjugated Streptavidin and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature.</p> <p>A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Specificity: | <p>This product is an IgG fraction antibody purified from monospecific antiserum by a multistep process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.</p> <p>Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Goat Serum as well as purified and partially purified Maltose Phosphorylase [E.coli].</p> <p>Cross reactivity against Maltose Phosphorylase from other sources is unknown.</p> |

Storage:

Store vial at 2-8°C prior to restoration. For extended storage add glycerol to 50% and then aliquot contents and freeze at -20°C or below. Centrifuge product if not completely clear after standing at room temperature.

This antibody is stable for one month at 2-8°C as an undiluted liquid.

Dilute only prior to immediate use.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

General Readings:

Bayer & Wilchek Methods in Enzymology 184; 138-160, 1990. (Conjugation)