

Product datasheet for **TA397022**

gox Rabbit Polyclonal Antibody

Product data:

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|------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, WB |
| Recommended Dilution: | WB: User Optimized ELISA: User Optimized |
| Reactivity: | Aspergillus niger |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Glucose Oxidase [A.niger] |
| Specificity: | Anti-GLUCOSE OXIDASE 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-Biotin, anti-Rabbit Serum as well as purified and partially purified Glucose Oxidase [A.niger]. Cross reactivity against Glucose Oxidase 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 |
| Reconstitution Method: | Restore with deionized water (or equivalent) - Reconstitution Volume: 100 µL |
| Concentration: | 1.0 mg/mL - lot specific |
| Conjugation: | Biotin |
| Storage: | 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. |
| Stability: | Expiration date is one (1) year from date of receipt. |
| Database Link: | P13006 |



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- Background:** Glucose Oxidase antibody detect the glucose oxidase protein. The glucose oxidase enzyme (GOx) (EC 1.1.3.4) is an oxido-reductase that catalyzes the oxidation of glucose to hydrogen peroxide and D-glucono- δ -lactone. In cells, it aids in breaking the sugar down into its metabolites. Glucose oxidase is widely used for the determination of free glucose in body fluids (diagnostics), in vegetal raw material, and in the food industry. GOx is a dimeric protein, the 3D structure of which has been elucidated. The active site where glucose binds is in a deep pocket. The enzyme, like many proteins that act outside of cells, is covered with carbohydrate chains. At pH 7, glucose exists in solution in cyclic hemiacetal form as 63.6% β -D-glucopyranose and 36.4% α -D-glucopyranose, the proportion of linear and furanose form being negligible. Anti-Glucose Oxidase antibody is ideal for investigators involved in glucose energy metabolism research.
- Synonyms:** rabbit anti-Glucose Oxidase Antibody biotin Conjugation, biotin Conjugated rabbit anti-Glucose Oxidase Antibody, Beta D Glucose Oxygen 1 Oxido Reductase antibody, Glucose oxidase (Precursor) antibody, Glucose Oxyhydrase antibody, GOD antibody
- Note:** Anti-GLUCOSE OXIDASE Biotin Conjugated Antibody has been tested by ELISA and Western blot. This product is assayed against 1.0 μ g of Glucose Oxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:5,000 to 1:25,000 of the reconstitution concentration is suggested for this product.

Product images:



Western Blot of Rabbit anti-Glucose Oxidase antibody Biotin Conjugated. Lane 1: Glucose Oxidase. Load: 50 ng per lane. Primary antibody: Glucose Oxidase antibody Biotin conjugated at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (MB-070) for 30 min at RT. Predicted/Observed size: 66 kDa, 66 kDa for Glucose Oxidase.