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Product datasheet for TA397022

gox Rabbit Polyclonal Antibody

Product data:

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 μ L
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:	<u>P13006</u>



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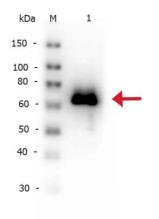
GRIGENE gox Rabbit Polyclonal Antibody – TA397022

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% eta -
	D-glucopyranose and 36.4% $lpha$ -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 μg of Glucose Oxidase in a standard capture ELISA
using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-
ethylbenthiazoline-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.

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