Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-4637

Glucose Oxidase Antibody Biotin Conjugated

Overview

Description:	Anti-Glucose Oxidase (RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-4637
Item No.:	200-4637
Size:	10 mg
Applications:	ELISA, WB
Reactivity:	Aspergillus niger
Host Species:	Rabbit

Product Details

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
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	gox

Reactivity:	Aspergillus niger
Immunogen Type:	Native Protein
Immunogen:	Glucose Oxidase [A.niger]
Purity/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.
Relevant Links:	• NCBI - P13006.1 • UniProtKB - P13006 • GeneID - 2683500

Application Details

Tested Applications:	ELISA, WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
WB:	1:500 - 1:3,000

Formulation

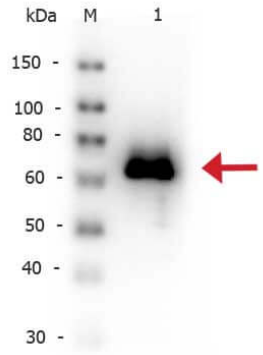
Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL

Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.