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Datasheet for 200-4637S

Glucose Oxidase Antibody Biotin Conjugated

Overview

Description:	Anti-Glucose Oxidase (RABBIT) Antibody Biotin Conjugated - 200-4637S
Item No.:	200-4637S
Size:	25 µL
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:	• UniProtKB - P13006 • NCBI - P13006.1 • 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:	User Optimized
WB:	User Optimized

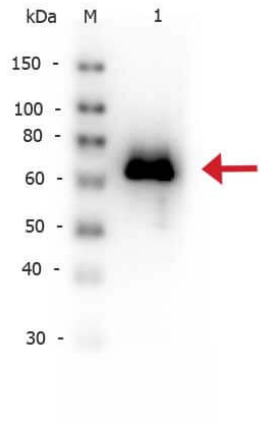
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
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.

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