

Datasheet for 100-1137

Glucose Oxidase Antibody

Overview

Description:	Anti-Glucose Oxidase (GOAT) Antibody - 100-1137
Item No.:	100-1137
Size:	2 mL
Applications:	WB
Reactivity:	Aspergillus niger
Host Species:	Goat

Product Details

Background:	Glucose oxidase antibody is specific to glucose oxidase enzyme. Glucose oxidase is an oxido-reductase that catalyses the oxidation of glucose to hydrogen peroxide and D-glucono- δ -lactone. Glucose oxidase is commonly used for the determination of free glucose in body fluids (diagnostics), and in the food industry. It also has many applications in biotechnologies, for example enzyme assays for biochemistry including biosensors in nanotechnologies. Glucose oxidase is often extracted from <i>Aspergillus niger</i> .
Synonyms:	goat anti-Glucose Oxidase Antibody, Beta D Glucose Oxygen 1 Oxido Reductase antibody, Glucose oxidase (Precursor) antibody, Glucose Oxyhydrase antibody, GOD antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	gox
Reactivity:	Aspergillus niger
Immunogen Type:	Native Protein
Immunogen:	Glucose Oxidase [<i>Aspergillus niger</i>]

Purity/Specificity: Anti-glucose oxidase antibody was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Glucose Oxidase [*Aspergillus niger*]. Cross reactivity against Glucose Oxidase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P13006](#)

Application Details

Tested Applications: WB

Application Note: Anti-glucose oxidase antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Glucose Oxidase [*Aspergillus niger*] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG and (ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-6-sulfonic acid]) substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:4,000 of the reconstitution concentration is suggested for this product. Optimal concentration should be determined by the researcher.

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: 90 mg/mL by Refractometry

Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: None

Stabilizer: None

Reconstitution Volume: 2.0 mL

Reconstitution Buffer: Restore with deionized water (or equivalent)

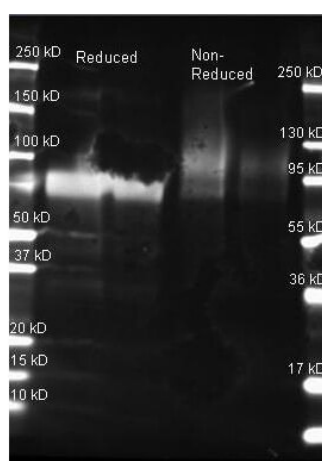
Shipping & Handling

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 Goat anti Glucose Oxidase antibody. Lane 1: ~1ug Glucose Oxidase Reduced. Lane 2: ~0.25ug Glucose Oxidase Reduced. Lane 3: ~1ug Glucose Oxidase Non-Reduced. Lane 4: ~0.25ug Glucose Oxidase Non-Reduced. Primary antibody: Glucose Oxidase antibody at 1:5000 for overnight at 4°C. Secondary antibody: Dylight 649 conjugated Donkey anti Goat (605-743-125 lot 20834 1:10K 1.5 hr RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 65.6 kDa, 90 kDa for Glucose Oxidase. Other band(s): none.

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.