

Datasheet for 200-1337-0100**Glucose Oxidase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Glucose Oxidase (GOAT) Antibody Peroxidase Conjugated - 200-1337-0100
Item No.:	200-1337-0100
Size:	100 µg
Reactivity:	Aspergillus niger
Host Species:	Goat

Product Details

Background:	Glucose Oxidase 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, used for the determination of free glucose in body fluids, and has many applications in biotechnologies.
Synonyms:	goat anti-Glucose Oxidase Antibody HRP Conjugation, Peroxidase Conjugated 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
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	gox
Reactivity:	Aspergillus niger
Immunogen Type:	Native Protein
Immunogen:	Glucose Oxidase [Aspergillus niger]

Purity/Specificity: Glucose Oxidase 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-Peroxidase, anti-Goat Serum as well as purified and partially purified Glucose Oxidase [*Aspergillus niger*]. Cross reactivity against Glucose Oxidase from other tissues and species may occur but has not been specifically determined.

Relevant Links:

- [UniProtKB - P13006](#)
- [NCBI - P13006.1](#)

Application Details

Application Note: Anti-Glucose Oxidase is useful in ELISA, western blot, and immunohistochemistry. Optimal titers should be reached by researchers.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:4,000 - 1:20,000

IHC: User Optimized

WB: 1:1,000 - 1:5,000

Formulation

Physical State: Lyophilized

Concentration: 1 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) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 100 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

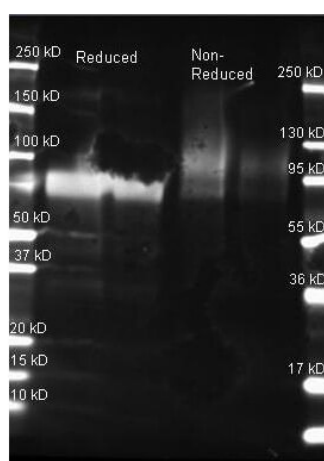
Shipping & Handling

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

Rockland Goat anti Glucose Oxidase antibody was used to detect Glucose Oxidase under reducing and non-reducing conditions. Reduced samples of purified Glucose Oxidase contained 4% BME and were boiled for 5 minutes. Samples of ~1 and 0.25 µg of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with Rockland Goat anti Glucose Oxidase antibody (200-1137 lot 165 1:5K in MB-070, ON 4 C). Primary antibody was detected with Rockland Dylight 649 conjugated Donkey anti Goat (605-743-125 lot 20834 1:10K 1.5 hr RT in MB-070 and imaged on the BioRad VersaDoc imaging system

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.