

**Datasheet for 200-101-037**

## Glucose Oxidase Antibody

### Overview

<b>Description:</b>	Anti-Glucose Oxidase (GOAT) Antibody - 200-101-037
<b>Item No.:</b>	200-101-037
<b>Size:</b>	100 µg
<b>Applications:</b>	WB
<b>Reactivity:</b>	Aspergillus niger
<b>Host Species:</b>	Goat

### Product Details

<b>Background:</b>	Glucose Oxidase enzyme is widely applied for the determination of glucose in body fluids and in removing residual glucose or oxygen from foods and beverages. Furthermore, glucose oxidase-producing molds such as aspergillus and penicillium species are used for the biological production of gluconic acid.
<b>Synonyms:</b>	goat anti-Glucose Oxidase Antibody, Beta D Glucose Oxygen 1 Oxido Reductase antibody, Glucose oxidase (Precursor) antibody, Glucose Oxyhydrase antibody, GOD antibody
<b>Host Species:</b>	Goat
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	gox
<b>Reactivity:</b>	Aspergillus niger
<b>Immunogen Type:</b>	Native Protein
<b>Immunogen:</b>	Glucose Oxidase [Aspergillus 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-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 have not been specifically determined.

**Relevant Links:**

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

## Application Details

<b>Tested Applications:</b>	WB
<b>Application Note:</b>	Anti-Glucose Oxidase has been tested in western blot and is suitable for use in ELISA and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:2,000 - 1:10,000
<b>IHC:</b>	User Optimized
<b>WB:</b>	1:1000 - 1:5000

## Formulation

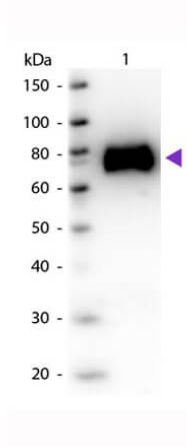
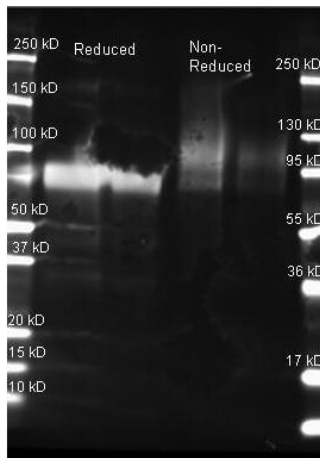
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1 mg/ml by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store Glucose Oxidase Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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 ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with Rockland Goat anti-Glucose Oxidase antibody (p/n 200-1137, lot 165) at 1:5K in MB-070, ON 4°C. Primary antibody was detected with Rockland Dylight 649 conjugated Donkey anti-Goat (p/n 605-743-125, lot 20834) at 1:10K 1.5 hr RT in MB-070 and imaged on the BioRad VersaDoc imaging system.

### Western Blot

Western Blot of Goat anti-Glucose Oxidase antibody. Lane 1: Glucose Oxidase. Load: 50 ng per lane. Primary antibody: Glucose Oxidase antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody (p/n 605-4302) at 1:40,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 65-70 kDa, 65-70 kDa for Glucose Oxidase. Other band(s): None.

## Disclaimer

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