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Datasheet for 200-101-037S

Glucose Oxidase Antibody

Overview

Description:	Anti-Glucose Oxidase (GOAT) Antibody - 200-101-037S
Item No.:	200-101-037S
Size:	25 µL
Applications:	WB
Reactivity:	Aspergillus niger
Host Species:	Goat

Product Details

Background:	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.
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:	IgG

Target Details

Gene Name:	gox
Reactivity:	Aspergillus niger
Immunogen Type:	Native Protein
Immunogen:	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

Tested Applications:	WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IHC:	User Optimized
WB:	1:1000 - 1:5000

Formulation

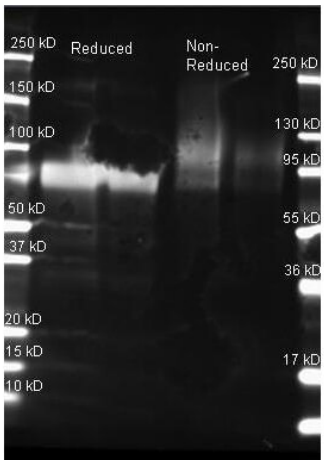
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

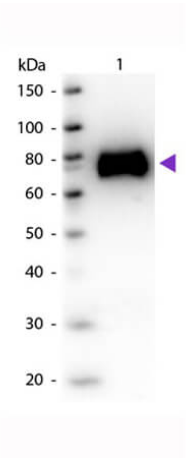
Shipping Condition:	Dry Ice

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 three (3) months 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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