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Datasheet for 200-4137S

Glucose Oxidase Antibody

Overview

Description:	Anti-Glucose Oxidase (RABBIT) Antibody - 200-4137S
Item No.:	200-4137S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Aspergillus niger
Host Species:	Rabbit

Product Details

Background:	Anti-Glucose Oxidase detects glucose oxidase. Glucose oxidase enzyme (GOx) 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, in vegetal raw material, and in the food industry. It also has many applications in biotechnologies, typically enzyme assays for biochemistry including biosensors in nanotechnologies. Anti-Glucose Oxidase Antibody is ideal for investigators involved in Cell Signaling and Signal Transduction research.
Synonyms:	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
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	gox
Reactivity:	Aspergillus niger
Immunogen Type:	Native Protein
Immunogen:	Anti-Glucose Oxidase Antibody was produced by repeated immunizations with Aspergillus niger Glucose Oxidase protein.

Purity/Specificity:	Anti-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-Rabbit 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

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Glucose Oxidase Antibody has been tested by ELISA and western blot and is suitable for IHC. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:35,000 - 1:160,000
IHC:	1:2,000 - 1:8,000
WB:	1:3500 - 1:16,000

Formulation

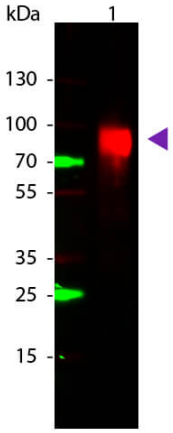
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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 one (1) year from date of receipt.

Images



Western Blot
Western Blot of Rabbit 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: DyLight™ 649 rabbit secondary antibody (p/n 611-143-002) at 1:20,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 80 kDa, 80 kDa for Glucose Oxidase from Aspergillus niger. Other band(s): None.

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