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Datasheet for 100-4137

Glucose Oxidase Antibody

Overview

Description:	Anti-Glucose Oxidase (RABBIT) Antibody - 100-4137
Item No.:	100-4137
Size:	2 mL
Reactivity:	Aspergillus niger
Host Species:	Rabbit

Product Details

Background:	Glucose Oxidase, first described in Aspergillus niger), catalyzes the oxidation of glucose into gluconic acid whilst in an aerobic environment. Glucose Oxidase is one of the most widely used biomarkers due to the large enthalpy change observed when it oxidizes glucose. Glucose oxidase can be used as a label in immunoassays when attached to antibodies and for staining tissues. In respect to glucose oxidases' ability to stain tissues, it is most commonly used to determine the levels of glucose in blood, serum, and plasma, as part of colorimetric assays. Anti-Glucose Oxidase Antibody is ideal for investigators in Immunology, Molecular Biology, and Hematology 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:	Antiserum

Target Details

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

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-rabbit 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

Application Note:	Anti-Glucose Oxidase Antibody has been assayed against 1.0 ug of Glucose Oxidase [Aspergillus niger] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Rabbit) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:16,000 of the reconstitution concentration is suggested for Anti-Glucose Oxidase Antibody.
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.

Disclaimer

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