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Datasheet for ABIN5596887

anti-Glucose Oxidase antibody (HRP)

1 Image

Overview

Quantity:	100 µg
Target:	Glucose Oxidase (GOD)
Reactivity:	Aspergillus niger
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This Glucose Oxidase antibody is conjugated to HRP
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	Immunogen: Glucose Oxidase [Aspergillus niger] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Glucose Oxidase from other tissues and species may occur but have not been specifically determined.
Purification:	Anti-Glucose Oxidase (Sheep) 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-Peroxidase, anti-Sheep Serum as well as purified and partially purified Glucose Oxidase [Aspergillus niger].

Target Details

Target: Glucose Oxidase (GOD)

Alternative Name: Glucose Oxidase ([GOD Products](#))

Background: Synonyms: Beta D Glucose Oxygen 1 Oxido Reductase antibody, Glucose oxidase (Precursor) antibody, Glucose Oxyhydrase antibody, GOD antibody

Background: Glucose oxidase is an enzyme that drives the oxidation of glucose into hydrogen peroxide and D-glucono- δ -lactone. This activity is utilized in biotechnology through colormetric detection assays that are sensitive to the amount of hydrogen peroxide produced. Horseradish Peroxidase (HRP) is an enzyme that utilizes organic peroxide compounds as electron donors. Horseradish Peroxidase naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs). Anti-Glucose Oxidase (Sheep) antibody is ideal for investigators in Microbiology, Immunology, and Cell Biology research.

Gene Name: gox

UniProt: [P13006](#)

Application Details

Application Notes: Application Note: Anti-Glucose Oxidase (sheep) antibody has been assayed against 1.0 μ g of Glucose Oxidase [*Aspergillus niger*] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:3,000 of the reconstitution concentration is suggested for this product.

Western Blot Dilution: 1:1,000 - 1:5,000

ELISA Dilution: 1:10,000 - 1:40,000

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Volume: 100 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1 mg/mL

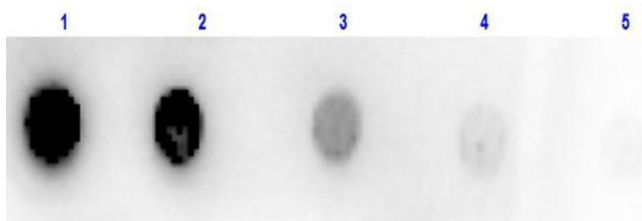
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

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

Handling

Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Dot Blot

Image 1. Dot Blot of Sheep Anti-GLUCOSE OXIDASE Antibody Peroxidase Conjugated Dot Blot of Sheep Anti-GLUCOSE OXIDASE Antibody Peroxidase Conjugated. Lane 1: 100 ng Glucose Oxidase. Lanes 2-5: serial dilution 3 fold of Antigen. Primary Antibody: none. Secondary Antibody: Anti-Glucose Oxidase Peroxidase Conj'd at 1:100 dilution of 1 mg/mL at RT for 30 minutes. Block: ABIN925618 at RT for 30 minutes.