Datasheet for ABIN1607646

anti-Pyranose Oxidase antibody (Biotin)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	Pyranose Oxidase
Reactivity:	Microbial
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Pyranose Oxidase antibody is conjugated to Biotin
Application:	Immunoprecipitation (IP), Western Blotting (WB), ELISA

Product Details

Immunogen:	Pyranose Oxidase [E.coli] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Pyranose Oxidase from other sources is unknown.
Purity:	Anti-Pyranose 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-Biotin, anti-Goat Serum as well as purified and partially purified Pyranose Oxidase [E.coli].
Endotoxin Level:	Low Endotoxin : No

Target Details

Target:	Pyranose Oxidase
Abstract:	Pyranose Oxidase Products
Background:	Anti-Pyranose oxidase recognizes the oxidoreductase pyranose oxidase. In general, pyranose catalyzes the oxidation of aldopyranoses at the carbon 2 position to form 2-ketoaldoses . Notably, pyranose oxidase catalyzes the conversion of D-glucose and oxygen to 2-dehydro-D-glucose and hydrogen peroxide using flavin adenine dinucleotide (FAD) as a cofactor. Pyranose oxidase also plays a role in the pentose phosphate pathway. Synonyms: P2Ox Pyranose oxidase PROD POD POx EC=1.1.3.10 Pyranose:oxygen 2-oxidoreductase Glucose 2-oxidase FAD-oxidoreductase
UniProt:	Q5G234, P79076

Application Details

Application Notes:	Anti-Pyranose oxidase antibody has been assayed against 1.0 µg of Pyranose Oxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 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 1:70.000 to 1:350.000 of the reconstitution concentration is suggested for this product. ELISA Dilution: 1:5.000 - 1:20.000 IF Immunoprecipitation Dilution: 1:100 Western Blot Dilution: 1:500 - 1:5.000
Restrictions:	For Research Use only

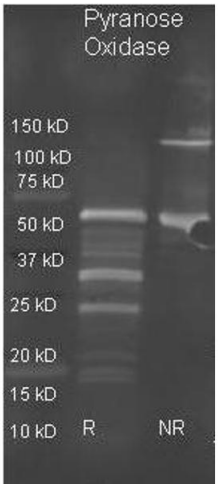
Handling

Format:	Liquid
Concentration:	10 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 Advice:	Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Storage:	-20 °C
Storage Comment:	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

Handling

	the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below.
Expiry Date:	Expiration date is one (1) year from date of opening.

Images



Western Blotting

Image 1. Goat anti Pyranose Oxidase antibody was used to detect pyranose oxidase under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in ABIN925618). Detection shown was using Dylight 488 conjugated Donkey anti goat (605-741-125 lot 21094 1:10K in TBS/ABIN925618 1 hr RT) . Images were collected using the BioRad VersaDoc System