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Datasheet for 200-103-094

Choline Oxidase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Choline Oxidase (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated (BULK ORDER) - 200-103-094
Item No.:	200-103-094
Size:	20 mg
Applications:	ELISA, WB
Reactivity:	Alcaligenes sp.
Host Species:	Goat

Product Details

Background:	Choline oxidase is an enzyme that catalyzes the chemical reaction (choline + O2 <=> betaine aldehyde + H2O2). Thus, the two substrates of this enzyme are choline and O2, whereas its two products are betaine aldehyde and H2O2. Choline oxidase belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. This enzyme participates in glycine, serine, and threonine metabolism.
Synonyms:	goat anti-Choline Oxidase Antibody HRP Conjugation, Peroxidase Conjugated goat anti-Choline Oxidase Antibody, codA antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CHOX_ALCSP
Reactivity:	Alcaligenes sp.
Immunogen Type:	Native Protein
Immunogen:	Choline Oxidase [Alcaligenes species]

Purity/Specificity:	Anti-Choline 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-Peroxidase, anti-Goat Serum as well as purified and partially purified Choline Oxidase [Alcaligenes species]. Cross reactivity against Choline Oxidase from other sources is unknown.
Relevant Links:	• UniProtKB - P16101 • NCBI - 116367

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Choline oxidase has been tested by ELISA and western blot and is assayed against 1.0 ug of Choline Oxidase [Alcaligenes species] in a standard capture ELISA using 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 1:1,000 to 1:5,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

Formulation

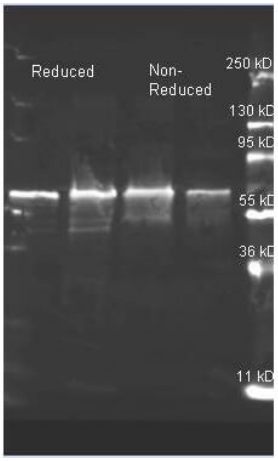
Physical State:	Lyophilized
Concentration:	10 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution 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.

Images



Western Blot
Rockland Goat anti Choline Oxidase antibody was used to detect Choline Oxidase. Samples of ~1 and 0.25 ug of purified Choline Oxidase per lane were run by SDS-PAGE under reducing and non-reducing conditions and reduced samples of purified Choline Oxidase contained 4% BME and were boiled for 5 minutes. Protein was transferred to nitrocellulose and probed with Rockland Goat anti Choline Oxidase (200-101-094 lot 5911 1:5K in MB-0070, ON 4 C). Primary antibody was detected with Rockland Dylight 649 conjugated Donkey anti Goat (605-743-125 1:10K 1.5 hr RT in MB-070 and imaged on the BioRad VersaDoc imaging system.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.