

Datasheet for 200-103-094S**Choline Oxidase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Choline Oxidase (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated - 200-103-094S
Item No.:	200-103-094S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Alcaligenes sp.
Host Species:	Goat

Product Details

Background:	Choline oxidase is an enzyme that catalyzes the chemical reaction (choline + O ₂ $\rightleftharpoons$ betaine aldehyde + H ₂ O ₂). Thus, the two substrates of this enzyme are choline and O ₂ , whereas its two products are betaine aldehyde and H ₂ O ₂ . 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: 1:1,000 - 1:2,500

IP: 1:100

WB: 1:500 - 1:1,000

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) Gentamicin Sulfate. Do NOT add Sodium Azide!

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

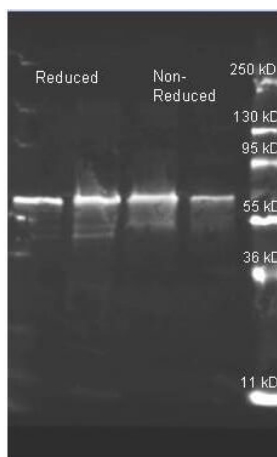
Shipping & Handling

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

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.