

## Datasheet for 100-101-094

## Choline Oxidase Antibody

### Overview

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Choline Oxidase (Alcaligenes species) (GOAT) Antibody - 100-101-094 |
| <b>Item No.:</b>     | 100-101-094                                                              |
| <b>Size:</b>         | 2 mL                                                                     |
| <b>Applications:</b> | WB                                                                       |
| <b>Reactivity:</b>   | Alcaligenes sp.                                                          |
| <b>Host Species:</b> | Goat                                                                     |

### Product Details

|                      |                                                                                                                                                                                                                                    |
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| <b>Background:</b>   | Choline Oxidase catalytic activity is $\text{Choline} + 2 \text{O}_2 + \text{H}_2\text{O} = \text{betaine} + 2 \text{H}_2\text{O}_2$ . This protein is involved in step 1 of the subpathway that synthesizes betaine from choline. |
| <b>Synonyms:</b>     | Choline oxidase, goat anti-Choline Oxidase Antibody                                                                                                                                                                                |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                               |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                         |
| <b>Format:</b>       | Antiserum                                                                                                                                                                                                                          |

### Target Details

|                            |                                                                                                                                                                                                                                                                                                                                       |
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| <b>Gene Name:</b>          | CHOX_ALCSP                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity:</b>         | Alcaligenes sp.                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen Type:</b>     | Native Protein                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen:</b>          | Choline Oxidase [Alcaligenes species]                                                                                                                                                                                                                                                                                                 |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Choline Oxidase [Alcaligenes species]. Cross reactivity against Choline Oxidase from other sources is unknown. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P16101</a></li><li>• <a href="#">NCBI - 116367</a></li></ul>                                                                                                                                                                                                          |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Tested Applications:</b> | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Application Note:</b>    | Goat anti-Choline Oxidase Antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Choline Oxidase [Alcaligenes species] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 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 1:32,000 of the reconstitution concentration is suggested for this product. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ELISA:</b>               | 1:5,000 - 1:20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>IP:</b>                  | 1:100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>WB:</b>                  | 1:500 - 1:5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

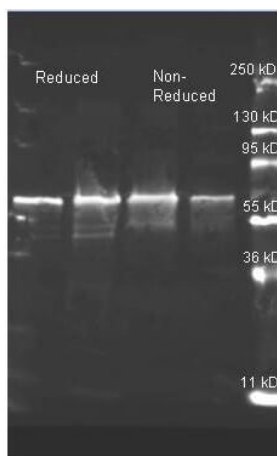
## Formulation

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                |
| <b>Concentration:</b>         | 90 mg/mL by Refractometry                                  |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>            | None                                                       |
| <b>Reconstitution Volume:</b> | 2.0 mL                                                     |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)               |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | 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 µg 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 (p/n 200-101-094, lot 5911) at 1:5K in (p/n MB-070) ON at 4°C. Primary antibody was detected with Rockland Dylight 649 conjugated Donkey anti-Goat (p/n 605-743-125) at 1:10K for 1.5 hr RT in (p/n MB-070) and imaged on the BioRad VersaDoc imaging system.

## Disclaimer

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