

**Datasheet for 200-106-093****Sarcosine Oxidase Antibody Biotin Conjugated****Overview**

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Sarcosine Oxidase (Microbial) (GOAT) Antibody Biotin Conjugated (BULK ORDER) - 200-106-093 |
| <b>Item No.:</b>     | 200-106-093                                                                                     |
| <b>Size:</b>         | 10 mg                                                                                           |
| <b>Applications:</b> | ELISA, WB                                                                                       |
| <b>Reactivity:</b>   | Sarcosine Oxidase (Microbial)                                                                   |
| <b>Host Species:</b> | Goat                                                                                            |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Sarcosine Oxidase is an inducible enzyme that catalyzes the oxidative demethylation of sarcosine to glycine, hydrogen peroxide, and 5,10-methylene-tetrahydrofolate in the presence of tetrahydrofolate and oxygen. Sarcosine oxidase is also able to oxidize cyclic amino acids such as L-proline and L-pipecolic acid, albeit at reduced rates. |
| <b>Synonyms:</b>     | goat anti-Sarcosine Oxidase Antibody, biotin Conjugated goat anti-Sarcosine Oxidase Antibody, Sarcosine oxidase subunit alpha, Sarcosine oxidase subunit                                                                                                                                                                                          |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                              |
| <b>Conjugate:</b>    | Biotin                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

|                        |                               |
|------------------------|-------------------------------|
| <b>Gene Name:</b>      | soxA                          |
| <b>Reactivity:</b>     | Sarcosine Oxidase (Microbial) |
| <b>Immunogen Type:</b> | Native Protein                |
| <b>Immunogen:</b>      | Sarcosine Oxidase [Microbial] |

**Purity/Specificity:** Sarcosine 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-Biotin, anti-Goat Serum as well as purified and partially purified Sarcosine Oxidase [Microbial]. Cross reactivity against Sarcosine Oxidase from other sources is unknown.

**Relevant Links:**

- [UniProtKB - Q46337](#)
- [NCBI - YP\\_004446819.1](#)
- [GeneID - 10586229](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-Sarcosine Oxidase Biotin Conjugated Antibody has been tested by ELISA and western blot. This product is suitable to be assayed against 1.0 ug of Sarcosine 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 1:4,000 to 1:20,000 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:** 10.0 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) Sodium Azide

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

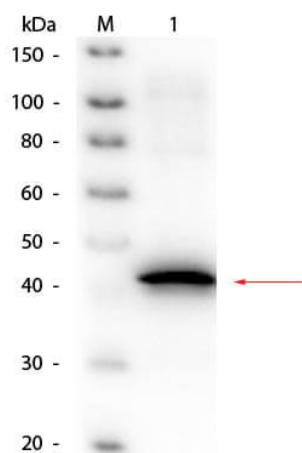
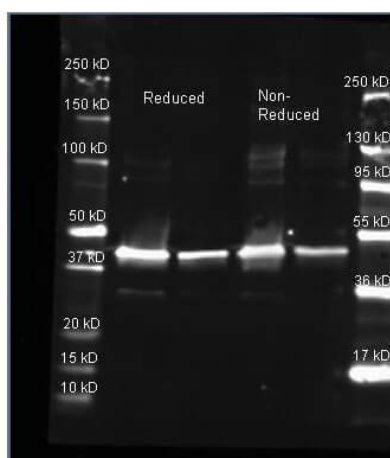
**Reconstitution Volume:** 1.0 mL

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 Sarcosine Oxidase antibody was used to detect Sarcosine Oxidase. Samples of ~1 and 0.25 ug of purified Sarcosine Oxidase per lane were run by SDS-PAGE under reducing and non-reducing conditions and reduced samples contained 4% BME and were boiled for 5 minutes. Protein was transferred to nitrocellulose and probed with Rockland Goat anti Sarcosine Oxidase (200-101-093 lot 5951 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.

### Western Blot

Western Blot of Goat anti-Sarcosine Oxidase (Microbial) Antibody Biotin Conjugated. Lane 1: Sarcosine Oxidase (Microbial). Load: 50 ng per lane. Primary antibody: Goat anti-Sarcosine Oxidase (Microbial) Antibody Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 45 kDa, 45 kDa for Sarcosine Oxidase monomeric alpha subunit.

## 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.