

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated
Sarcosine Oxidase Antibody Biotin Conjugated
Catalog # ASR4018

Specification

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Product Information

Host	Goat
Conjugate	Biotin
Target Species	Microbial
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
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-ethyl benthiazoline-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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Sarcosine Oxidase [Microbial]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Additional Information

Other Names
10586229

Purity
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.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Protein Information

Name soxA {ECO:0000303|PubMed:7543100}

Function

In the presence of tetrahydrofolate, catalyzes the oxidative demethylation of sarcosine to yield glycine, 5,10- methylenetetrahydrofolate and hydrogen peroxide (PubMed:11330998, PubMed:3427080, PubMed:9185627). In the absence of tetrahydrofolate, catalyzes the oxidative demethylation of sarcosine to yield glycine, formaldehyde and hydrogen peroxide (PubMed:11330998, PubMed:7692961, PubMed:9185627).

Cellular Location

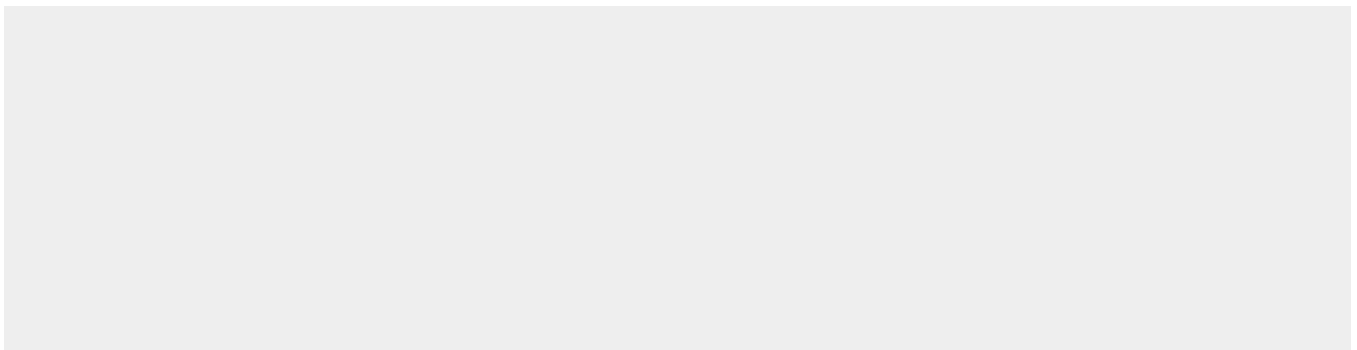
Cytoplasm.

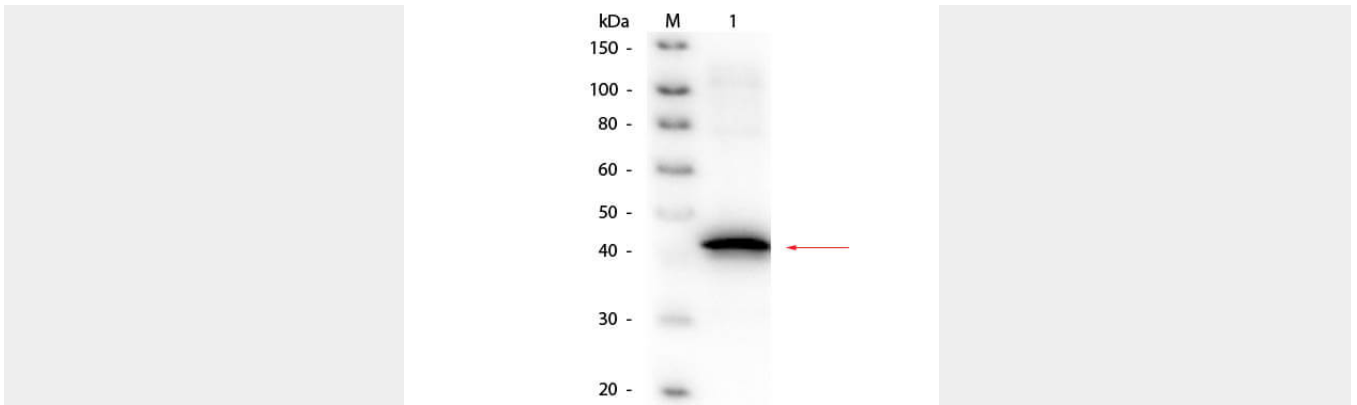
Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Images





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.

Anti-SARCOSINE OXIDASE (Microbial) (GOAT) Antibody Biotin Conjugated - Background

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.