

Anti-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated
Cholesterol Oxidase Antibody Peroxidase Conjugated
Catalog # ASR3992

Specification

**Anti-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated -
Product Information**

Host	Goat
Conjugate	Peroxidase (Horseradish)
Target Species	Streptomyces
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Anti-Cholesterol Oxidase has been assayed against 1.0 ug of Cholesterol Oxidase [Microorganism] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Cholesterol Oxidase [Streptomyces]
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) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Anti-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated -
Additional Information**

Purity

Cholesterol 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 Cholesterol Oxidase [Microorganism]. Cross reactivity against Cholesterol 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-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated - Protein Information

Name choA

Function

Bifunctional enzyme that catalyzes the oxidation of the 3- beta-hydroxy group of cholesterol and the isomerization of the double bond of the resulting product, producing cholest-4-en-3-one. These reactions are part of a cholesterol degradation pathway that allows the bacterium to utilize cholesterol as its sole source of carbon and energy.

Cellular Location

Secreted.

Anti-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase 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-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated - Images**Anti-CHOLESTEROL OXIDASE (Microorganism) (GOAT) Antibody Peroxidase Conjugated - Background**

Cholesterol Oxidase is a bifunctional enzyme that catalyzes the oxidation of the 3-beta-hydroxy group of cholesterol and the isomerization of the double bond of the resulting product. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. The systematic name of this enzyme class is cholesterol:oxygen oxidoreductase. Other names in common use include cholesterol- O₂ oxidoreductase, 3beta-hydroxy steroid oxidoreductase, and 3beta-hydroxysteroid:oxygen oxidoreductase. This enzyme participates in bile acid biosynthesis.