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Polyclonal Antibody to Cholesterol Oxidase - Biotin

Alternate names: CHOD, Cholesterol oxidase, EC 1.1.3.6

Catalog No.: R1075B

Quantity: 10 mg

Concentration: 10.0 mg/ml (by UV absorbance at 280 nm)

Background: Cholesterol Oxidases exist as both type I and type II oxidases and are implicated in bacterial pathogenesis. In addition, they are important as clinical reagents, potential larvicides, and tools in cell biology.

Host: Goat

Immunogen: Cholesterol Oxidase [Microorganism].

Format:
State: Lyophilized purified Ig fraction.
Purification: Multi-step process.
Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide as preservative and 10 mg/ml Bovine Serum Albumin (BSA, IgG and Protease free) as stabilizer.
Label: Biotin – Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)
Molar Ratio: 10-20 BAC molecules per Goat IgG molecule.
Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).

Applications: Suitable for immunoblotting, ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency.
Recommended Dilutions: This product has been assayed against 1.0 ug of Cholesterol Oxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) 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.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This product 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 Cholesterol Oxidase [Microorganism].
Cross reactivity against Cholesterol Oxidase from other sources is unknown.

Storage: Store vial at 2-8°C prior to restoration. Centrifuge product if not completely clear after standing at room temperature. For extended storage reconstitute product with 50% glycerol instead of water and then aliquot contents and freeze at -20°C or below.
This product is stable for one month at 2-8°C as an undiluted liquid.
Dilute only prior to immediate use.
Avoid cycles of freezing and thawing.
Shelf life: One year from despatch.

General Readings: Bayer & Wilchek Methods in Enzymology 184; 138-160, 1990. (Conjugation)