

# Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated

Choline Oxidase Antibody Peroxidase Conjugated Catalog # ASR3971

#### **Specification**

# Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Product Information

Host Conjugate Target Species Clonality Application Application Note	Goat Peroxidase (Horseradish) Alcaligenes Polyclonal WB, E, IP, I, LCI Anti-Choline oxidase has been tested by ELISA and western blot and is assayed against 1.0 ug of Choline Oxidase [Alcaligenes species] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbe nthiazoline-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
Butter	0.02 M Potassium Phosphate, 0.15 M
Immunogen	Choline Oxidase [Alcaligenes species]
Reconstitution Volume	100 uL
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-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Additional Information

#### **Purity**

Anti-Choline 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 Choline Oxidase [Alcaligenes species]. Cross reactivity against Choline 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-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Protein Information

## Name CHOX

## Function

Oxidizes choline to betaine, probably via two successive reactions with betaine aldehyde as an intermediate (PubMed:<a href="http://www.uniprot.org/citations/6997283" target="\_blank">6997283</a>). Accepts either choline or the reaction intermediate betaine-aldehyde as substrate (PubMed:<a href="http://www.uniprot.org/citations/6997283" target="\_blank">6997283</a>). Accepts either choline or the reaction intermediate betaine-aldehyde as substrate (PubMed:<a href="http://www.uniprot.org/citations/6997283" target="\_blank">6997283</a>). Accepts either choline or the reaction intermediate betaine-aldehyde as substrate (PubMed:<a href="http://www.uniprot.org/citations/6997283" target="\_blank">6997283</a>). Glycine-betaine accumulates to high levels in the cytoplasm of cells to prevent dehydration and plasmolysis in adverse hyperosmotic environments (By similarity).

## Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Images

# Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody Peroxidase Conjugated -Background

Choline oxidase is an enzyme that catalyzes the chemical reaction (choline + O2 betaine aldehyde + H2O2). Thus, the two substrates of this enzyme are choline and O2, whereas its two products are betaine aldehyde and H2O2. Choline oxidase belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. This enzyme participates in glycine, serine, and threonine metabolism.