

Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody
Choline Oxidase Antibody
Catalog # ASR3910**Specification****Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Alcaligenes
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Choline Oxidase Antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Choline Oxidase [Alcaligenes species] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 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 1:22,000 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	Choline Oxidase [Alcaligenes species]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody - 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-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 - Protein Information

Name CHOX

Function

Oxidizes choline to betaine, probably via two successive reactions with betaine aldehyde as an intermediate (PubMed:6997283). Accepts either choline or the reaction intermediate betaine-aldehyde as substrate (PubMed:6997283). 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 - 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-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody - Images

Anti-CHOLINE OXIDASE (Alcaligenes species) (GOAT) Antibody - Background

Choline Oxidase catalytic activity is $\text{Choline} + 2 \text{O}_2 + \text{H}_2\text{O} = \text{betaine} + 2 \text{H}_2\text{O}_2$. This protein is involved in step 1 of the subpathway that synthesizes betaine from choline.