10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

OxdC Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11223

Specification

OxdC Antibody - Product Information

Application	**WB**
Primary Accession	O34714
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**43566**

OxdC Antibody - Additional Information

Gene ID 938620

Positive Control	**Western Blot: Recombinant protein**
Application & Usage	**Western blot: 1-4 µg/ml.**

Other Names
YvrK

Target/Specificity
OxdC

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) of antibody in PBS pH 7.2 containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
OxdC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

OxdC Antibody - Protein Information

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Name oxdC {ECO:0000303|PubMed:11546787}

Function
Converts oxalate to formate and CO(2) in an O(2)-dependent reaction. Can also catalyze minor side reactions: oxalate oxidation to produce H(2)O(2), and oxalate-dependent, H(2)O(2)-independent dye oxidations.

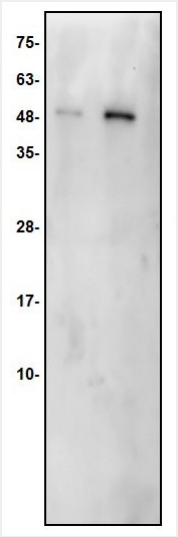
Cellular Location
Cytoplasm.

OxdC 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 Cytomety
- Cell Culture

OxdC Antibody - Images



Western blot of Oxalate decarboxylase antibody. Lane 1: rb- Oxalate decarboxylase - 10 ng. Lane 2: rb- Oxalate decarboxylase - 50 ng

OxdC Antibody - Background

Oxalate decarboxylase (OxdC, EC4.1.1.2) is a manganese-containing enzyme, which decomposes oxalic acid and oxalate. With OxdC catalysis, oxalate is split into formate and CO2. This enzyme belongs to the family of lyases, specifically the carboxy-lyases, which cleave carbon-carbon bonds. The systematic name of this enzyme class is oxalate carboxy-lyase (formate-forming). This enzyme is also called oxalate carboxy-lyase. The enzyme is composed of two cupin domains, each of which contains a Mn (II) ion. This enzyme participates in glyoxylate and dicarboxylate metabolism. This

enzyme has been recognized for diagnostics in diverse biotechnological applications such as the clinical assay of oxalate in blood and urine, therapeutics, process industry, and agriculture to lower oxalate levels in foods and the environment.