

## Datasheet for 200-4183

## Xanthine Oxidase Antibody

### Overview

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Xanthine Oxidase (Buttermilk) (RABBIT) Antibody (BULK ORDER) - 200-4183 |
| <b>Item No.:</b>     | 200-4183                                                                     |
| <b>Size:</b>         | 50 mg                                                                        |
| <b>Applications:</b> | ELISA, WB                                                                    |
| <b>Reactivity:</b>   | Bovine                                                                       |
| <b>Host Species:</b> | Rabbit                                                                       |

### Product Details

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Xanthine dehydrogenase/oxidase is a key enzyme in purine degradation. It catalyzes the oxidation of hypoxanthine to xanthine. It catalyzes the oxidation of xanthine to uric acid. It contributes to the generation of reactive oxygen species. Xanthine dehydrogenase/oxidase can be converted from the dehydrogenase form (D) to the oxidase form (O) irreversibly by proteolysis or reversibly through the oxidation of sulfhydryl groups. |
| <b>Synonyms:</b>     | rabbit anti-Xanthine Oxidase Antibody, Xanthine dehydrogenase antibody, Xanthine dehydrogenase/oxidase antibody, Xanthine oxidase antibody, Xanthine oxidoreductase antibody, xdh antibody, xdha antibody, XO antibody, xor antibody                                                                                                                                                                                                          |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Target Details

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Gene Name:</b>      | XDH                                  |
| <b>Reactivity:</b>     | Bovine                               |
| <b>Immunogen Type:</b> | Native Protein                       |
| <b>Immunogen:</b>      | Xanthine Oxidase [Bovine Buttermilk] |

**Purity/Specificity:** Anti-Xanthine 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-Rabbit Serum as well as purified and partially purified Xanthine Oxidase [Bovine Buttermilk]. Cross reactivity against Xanthine Oxidase from other tissues and species may occur but have not been specifically determined.

**Relevant Links:**

- [UniProtKB - P80457](#)
- [NCBI - DAA24801.1](#)
- [GeneID - 280960](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Xanthine Oxidase antibody has been tested by ELISA and western blot and is assayed against 1.0 ug of Xanthine Oxidase [Bovine Buttermilk] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 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 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:5,000 - 1:20,000

**IP:** 1:100

**WB:** 1:500 - 1:5,000

## Formulation

**Physical State:** Lyophilized

**Concentration:** 10.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** 0.01% (w/v) Sodium Azide

**Stabilizer:** None

**Reconstitution Volume:** 5.0 mL

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Disclaimer

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