

## Datasheet for 200-4183S

## Xanthine Oxidase Antibody

### Overview

<b>Description:</b>	Anti-Xanthine Oxidase (Buttermilk) (RABBIT) Antibody - 200-4183S
<b>Item No.:</b>	200-4183S
<b>Size:</b>	25 µL
<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:** Liquid (sterile filtered)

**Concentration:** 1.0 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

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Disclaimer

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