

Datasheet for 200-4183S

Xanthine Oxidase Antibody

Overview

Description:	Anti-Xanthine Oxidase (Buttermilk) (RABBIT) Antibody - 200-4183S
Item No.:	200-4183S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Bovine
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	XDH
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	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

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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