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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet for 100-4183**Xanthine Oxidase Antibody****Overview**

Description:	Anti-Xanthine Oxidase (Buttermilk) (RABBIT) Antibody - 100-4183
Item No.:	100-4183
Size:	2 mL
Applications:	ELISA, IF, Multiplex, 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/oxidase, Xanthine dehydrogenase (XD), Xanthine oxidase (XO), Xanthine oxidoreductase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	XDH
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Xanthine Oxidase [Bovine Buttermilk]
Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Xanthine Oxidase [Bovine Buttermilk].

Relevant Links:	<ul style="list-style-type: none">• 100-4183 SDS• UniProtKB - P80457• NCBI - DAA24801.1• GeneID - 280960
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Application Details

Tested Applications:	ELISA
Suggested Applications:	IF, Multiplex, WB (Based on references)
Application Note:	Xanthine oxidase antibody has been tested by ELISA. this product has been 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-ethylbenthiiazoline-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:	1:50,000 - 1:200,000
WB:	1:5,000 - 1:20,000

Formulation

Physical State:	Lyophilized
Concentration:	75 mg/mL by Refractometry
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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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.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Konior A et al. Seasonal superoxide overproduction and endothelial activation in guinea-pig heart; seasonal oxidative stress in rats and humans. *J Mol Cell Cardiol.* (2011)
- Fini, MA et al. Contribution of xanthine oxidoreductase to mammary epithelial and breast cancer cell differentiation in part modulates inhibitor of differentiation-1. *Molecular Cancer Research : Mcr* (2011)
- Fini, MA. et al. Migratory activity of human breast cancer cells is modulated by differential expression of xanthine oxidoreductase. *Journal of Cellular Biochemistry* (2008)

Disclaimer

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