

Datasheet: 4690-3999A

Description:	SHEEP ANTI BOVINE GLUTATHIONE PEROXIDASE:Alk. Phos.
Specificity:	GLUTATHIONE PEROXIDASE
Format:	Alk. Phos.
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/100 - 1/250

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Bovine

Species Cross Reactivity

Based on sequence similarity, is expected to react with:Human

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to bovine glutathione peroxidase were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin

Immunogen

Glutathione peroxidase from bovine erythrocytes.

**External Database
Links**

UniProt:

[P00435](#) [Related reagents](#)

Entrez Gene:

[281209](#) GPX1 [Related reagents](#)

RRID AB_872017

Specificity **Sheep anti Bovine glutathione peroxidase antibody** detects human glutathione peroxidase (GSH-Px), a selenium-containing tetrameric enzyme found in mammalian erythrocytes. GSH-Px has an important role in protecting cellular and subcellular membranes from oxidative damage, and functions to detoxify peroxide through the reduction of hydrogen peroxide and organic peroxides.

An increase in GSH-Px in tumour cells may be associated with resistance to drugs that act by generating reactive oxygen species, for example doxorubicin.

References 1. Kankofer, M. *et al.* (2013) The presence of SOD 1 and GSH-Px in bovine retained and properly released foetal membranes. [Reprod Domest Anim. 48 \(4\): 699-704.](#)

Further Reading 1. MILLS, G.C. (1957) Hemoglobin catabolism. I. Glutathione peroxidase, an erythrocyte enzyme which protects hemoglobin from oxidative breakdown. [J Biol Chem. 229 \(1\): 189-97.](#)

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 18 months from date of despatch.

**Health And Safety
Information** Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

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