

Datasheet: 4690-3999G

Description:	SHEEP ANTI BOVINE GLUTATHIONE PEROXIDASE
Specificity:	GLUTATHIONE PEROXIDASE
Format:	Purified
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 - 1/1000

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 the 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 was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Approx. Protein IgG concentration 5.0mg/ml

Concentrations

Immunogen Glutathione peroxidase from bovine erythrocytes.

External Database Links

UniProt:

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

Entrez Gene:

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

RRID AB_1102592

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 or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [HRP](#)

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