Datasheet: 6120-0004

BATCH NUMBER 150742

Description:	SHEEP ANTI METHOTREXATE
Specificity:	METHOTREXATE
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.5 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	▪			

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

Chemical

Product Form

Serum - liquid

Preservative Stabilisers

0.09% Sodium Azide (NaN$_3$)

Immunogen

Methotrexate (4-amino-10-methylpteroyl-L-glutamic acid) conjugated via the carboxyl groups of the glutamic acid residue to KLH.

RRID

AB_619727

Specificity

Sheep anti methotrexate antibody recognizes Methotrexate, a drug originally manufactured as a chemotherapeutic agent for the treatment or a number of cancers. Methotrexate also acts as a disease-modifying anti-rheumatic drug used for the treatment of autoimmune conditions such as rheumatoid arthritis, Chron's disease and vasculitis.

Sheep anti methotrexate antibody exhibits the following cross reactivities with related compounds:-

Aminopterin	18%
Folic acid	<0.01%
Dyhydrofolic acid	<0.01%
Tetrahydrofolic acid	<0.01%
N-5-Methyltetrahydrofolic acid	<0.01%
Folinic acid	<0.01%
N-(p-Aminobenzoyl)-L-glutamic acid	<0.01%

References

1. Suzuki, Y. *et al.* (2003) The immunoassay of methotrexate by capillary electrophoresis with laser-induced fluorescence detection. Anal Sci. 19 (1): 111-5.
2. Tesfalidet, S. *et al.* (2016) Detection of methotrexate in a flow system using electrochemical impedance spectroscopy and multivariate data analysis. Anal Chim Acta. 914: 1-6.
3. Sereilakena, P*et al.* (2017) Determination of methotrexate in spiked human blood serum using multi-frequency electrochemical immittance spectroscopy and multivariate data analysis Analytica Chimica Acta. 987: 15-24.
4. Phal, S. *et al.* (2018) Covalently electrografted carboxyphenyl layers onto gold surface serving as a platform for the construction of an immunosensor for detection of methotrexate Journal of Electroanalytical Chemistry. Jan 3 [Epub ahead of print].

Storage

Store at +4ºC or at -20ºC 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 #10081 available at:
https://www.bio-rad-antibodies.com/SDS/6120-0004
10081

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M354527:190724'

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