

Datasheet: 6120-0004

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
FLISA				

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.

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-AminobenzovI)-L-qlutamic aci	d <0.01%

References

- 1. Suzuki, Y. et al. (2003) The immunoassay of methotrexate by capillary electrophoresis with laserinduced 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, Pet 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 +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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10081 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Email: antibody_sales_us@bio-rad.com

Donkey Anti Sheep IgG (STAR88...)

DyLight®488, DyLight®549, DyLight®649, FITC, HRP

North & South Tel: +1 800 265 7376 America

Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Europe

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