

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.biorad-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.

Specificity	Sheep anti methotrexate antibody recognizes Methotrexate, a drug originally
RRID	AB_619727
Immunogen	Methotrexate (4-amino-10-methylpteroyl-L-glutamic acid) conjugated via the carboxyl groups of the glutamic acid residue to KLH.
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Product Form	Serum - liquid
Target Species	Chemical

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. <u>Anal Sci. 19 (1): 111-5.</u>
- 2. Tesfalidet, S. *et al.* (2016) Detection of methotrexate in a flow system using electrochemical impedance spectroscopy and multivariate data analysis. <u>Anal Chim Acta.</u> 914: 1-6.
- 3. Phal, S. *et al.* (2017) Determination of methotrexate in spiked human blood serum using multi-frequency electrochemical immittance spectroscopy and multivariate data analysis. <u>Anal Chim Acta. 987: 15-24.</u>
- 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 <u>JElectroanalytical Chem. 812: 235-43.</u>
- 5. Mwanza, D. *et al.* (2021) Electrografting of isophthalic acid monolayer and covalent attachment of antibody onto carbon surfaces: construction of capacitive biosensor for methotrexate detection <u>Electrochimica Acta.</u>: 139360. [Epub ahead of print]

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 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

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

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