

Datasheet: 6120-0004 BATCH NUMBER 160520

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 <u>www.bio-rad-antibodies.com/protocols</u> . Yes No Not Determined Suggested Dilution					
	ELISA	•				
	Where this product has not necessarily exclude its use a guide only. It is recomme system using the appropria	e in such p ended that	procedures t the user	s. Suggested work titrates the produc	ing dilutions are given as	
Target Species	Chemical					
Product Form	Serum - liquid					
Preservative Stabilisers	<0.1% Sodium Azide (NaN	1 ₃)				
Immunogen	Methotrexate (4-amino-10-methylpteroyl-L-glutamic acid) conjugated via the carboxyl groups of the glutamic acid residue to KLH.				ated via the carboxyl	
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 ac	id <0.01%			
References	 Suzuki, Y. <i>et al.</i> (2003) The immunoassay of methotrexate by capillary electrophoresis with laser-induced fluorescence detection. <u>Anal Sci. 19 (1): 111-5.</u> Tesfalidet, S. <i>et al.</i> (2016) Detection of methotrexate in a flow system using electrochemical impedance spectroscopy and multivariate data analysis. <u>Anal Chim Acta.</u> 				
	 <u>914: 1-6.</u> 3. Sereilakena, Pet al. (2017) Determination of methotrexate in spiked human blood serum using multi-frequency electrochemical immittance spectroscopy and multivariate data analysis <u>Analytica Chimica Acta. 987: 15-24.</u> 4. Phal, S. et al. (2018) Covalently electrografted carboxyphenyl layers onto gold surfa serving as a platform for the construction of an immunosensor for detection of methotrexate <u>Journal of Electroanalytical Chemistry. Jan 3 [Epub ahead of print].</u> 				
	5. Mwanza, D. <i>et al.</i> (2021) Electro attachment of antibody onto carbor methotrexate detection <u>Electrochin</u>	n surfaces: construction of c	apacitive biosensor for		
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 thawir	ng as this may denature the	antibody. Storage in		
	frost-free freezers is not recommer	•			
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet docume https://www.bio-rad-antibodies.com 10081				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

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

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