



# Anti-Methotrexate (C-terminal) polyclonal antibody (DPABY-070)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	<p>Sheep anti methotrexate antibody recognizes Methotrexate, a disease-modifying anti-rheumatic drug used for the treatment of autoimmune conditions such as rheumatoid arthritis and vasculitis.</p> <p>Sheep anti methotrexate antibody exhibits the following cross reactivities with related compounds:</p> <p>Aminopterin 18%</p> <p>Folic acid &lt;0.01%</p> <p>Dyhydrofolic acid &lt;0.01%</p> <p>Tetrahydrofolic acid &lt;0.01%</p> <p>N-5-Methyltetrahydrofolic acid &lt;0.01%</p> <p>Folinic acid &lt;0.01%</p> <p>N-(p-Aminobenzoyl)-L-glutamic acid &lt;0.01%</p>
<b>Immunogen</b>	Methotrexate (4-amino-10-methylpteroyl-L-glutamic acid) conjugated via the carboxyl groups of the glutamic acid residue to KLH.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Sheep
<b>Species Reactivity</b>	Chemical
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Serum - liquid
<b>Size</b>	500 µl
<b>Preservative</b>	None
<b>Storage</b>	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.

# BACKGROUND

## Introduction

Methotrexate is in the class of medications called antimetabolites. The drug is used to treat severe psoriasis, rheumatoid arthritis and certain types of cancer. It works by slowing the proliferation of cells. Specifically, it inhibits the enzyme dihydrofolate reductase that is necessary for the synthesis of folic acid, which is required for the synthesis of DNA, RNA, thymidylates and proteins.

## Keywords

L-(+)-AMETHOPTERIN; Methotrexate; MTX; ANTIFOLAN; NSC 740; 4-AMINO-N 10-METHYLPTEROYL-L-GLUTAMIC ACID; 4-AMINO-10-METHYLPTEROYLGLUTAMIC ACID; NCI-C04671; (+)-4-AMINO-10-METHYLFOLIC ACID; METHOTREXATE; 4-AMINO-10-METHYLFOLIC ACID; amethopterin; Metatrexan; 4-amino-4-deoxy-n(sup10)-methylpteroylglutamate; Amethopterine; a-methpterin; CL-14377; EMT 25,299; emt25,299; Hdmtx; Kyselina 4-amino-N10-methylpteroylglutamova; L-(+)-N-(p-((2,4-Diamino-6-pteridiny)methyl)methylamino)benzoyl)glutamic acid