

Datasheet: VPA00186

BATCH NUMBER 120315

Description:	SHEEP ANTI THYMIDYLATE SYNTHASE
Specificity:	THYMIDYLATE SYNTHASE
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 µl

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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Ig fraction - liquid
Preparation	Sheep polyclonal Ig fraction prepared prepared by ammonium sulfate precipitation
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Recombinant human thymidylate synthase

External Database Links

UniProt:

[P04818](#)

[Related reagents](#)

Entrez Gene:[7298](#) TYMS [Related reagents](#)

Synonyms	TS
-----------------	----

Specificity	Sheep anti Human thymidylate synthase antibody recognizes thymidylate synthase, also known as TSase Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of thymidylate synthase and that of a naturally occurring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase (provided by RefSeq, Jul 2008). Sheep anti Human thymidylate synthase antibody detects a band of 31 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
--------------------	--

Western Blotting	Anti thymidylate synthase detects a band of approximately 31 kDa in Jurkat cell lysates.
-------------------------	--

Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
----------------	---

Guarantee	12 months from date of despatch
------------------	---------------------------------

Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
-------------------------	---

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VPA00186 Antibody (10040)
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

'M370554:200529'

Printed on 13 Aug 2023