

Datasheet: VMA00217

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| Description: | MOUSE ANTI THYMIDYLATE SYNTHASE |
| Specificity: | THYMIDYLATE SYNTHASE |
| Format: | Purified |
| Product Type: | PrecisionAb™ Monoclonal |
| Clone: | OT19H4 |
| Isotype: | IgG1 |
| 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 |

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

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| Target Species | Human |
| Species Cross Reactivity | Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Preparation | Mouse monoclonal antibody purified by affinity chromatography from ascites |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol |
| Immunogen | Full length recombinant human thymidylate synthase (NP_001062) produced in SF9 cells |
| External Database Links | <p>UniProt: P04818 Related reagents</p> <p>Entrez Gene: 7298 TYMS Related reagents</p> |

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| Synonyms | TS |
| Specificity | <p>Mouse anti Human thymidylate synthase antibody recognizes thymidylate synthase, also known as TSase.</p> <p>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 TYMS 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).</p> <p>Mouse anti Human thymidylate synthase antibody detects a band of 30 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p> |
| Western Blotting | Anti thymidylate synthase detects a band of approximately 30 kDa in Jurkat cell lysates |
| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page. |
| Storage | Store undiluted at -20°C, avoiding repeated freeze thaw cycles. |
| Shelf Life | As supplied, 12 months from date of despatch. |
| Acknowledgements | PrecisionAb™ is a trademark of Bio-Rad Laboratories. |
| Health And Safety Information | Material Safety Datasheet documentation #10048 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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