

Datasheet: OBT1127

BATCH NUMBER 300714

Description:	MOUSE ANTI HUMAN THYMIDYLATE SYNTHASE
Specificity:	THYMIDYLATE SYNTHASE
Other names:	TYMS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TS106
Isotype:	IgG1
Quantity:	0.1 mg

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
Flow Cytometry	▪			
Immunohistology - Frozen	▪			1/50 - 1/100
Immunohistology - Paraffin	▪			1/50 - 1/100
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/200 - 1/400
Immunofluorescence	▪			

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 appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
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Immunogen	Recombinant thymidylate synthase.
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External Database Links	UniProt: P04818 Related reagents Entrez Gene: 7298 TYMS Related reagents
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Synonyms	TS
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RRID	AB_2288065
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Specificity	<p>Mouse anti Human thymidylate synthase antibody, clone TS106 recognizes thymidylate synthase, an enzyme that is essential for DNA biosynthesis and acts by converting dUMP to dTMP.</p> <p>Thymidylate synthase is a target for the fluoropyrimidine group of cytotoxic drugs that are used to treat solid tumours.</p>
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Western Blotting	OBT1127 detects a band of approximately 36 kDa under reduced conditions.
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References	<ol style="list-style-type: none">1. Johnston, P.G. <i>et al.</i> (1991) Production and characterization of monoclonal antibodies that localize human thymidylate synthase in the cytoplasm of human cells and tissue. Cancer Res. 51 (24): 6668-76.2. Johnston, P.G. <i>et al.</i> (1992) Immunological quantitation of thymidylate synthase using the monoclonal antibody TS 106 in 5-fluorouracil-sensitive and -resistant human cancer cell lines. Cancer Res. 52 (16): 4306-12.3. Johnston, P.G. <i>et al.</i> (1995) Thymidylate synthase gene and protein expression correlate and are associated with response to 5-fluorouracil in human colorectal and gastric tumors. Cancer Res. 55 (7): 1407-12.
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT1127</p> <p>10040</p>
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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
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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
'M369302:200529'

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