

Datasheet: MCA6360

BATCH NUMBER 157623

Description:	RABBIT ANTI CPS1
Specificity:	CPS1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM395
Isotype:	IgG
Quantity:	0.1 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/100 - 1/200
Western Blotting	▪			1/5000 - 1/10000

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

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from animal origin-free culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A peptide corresponding to the N-terminus of human CPS1 (Carbamoyl-Phosphate Synthase). This antibody may also react to mouse or rat CPS1, as predicted by immunogen homology.
External Database Links	<p>UniProt: P31327 Related reagents</p> <p>Entrez Gene: 1373 CPS1 Related reagents</p>
Specificity	<p>Rabbit anti CPS1 antibody recognizes carbamoyl a multidomain mitochondrial enzyme which l-phosphate synthase [ammonia], mitochondrial, also known as CPSase I.</p> <p>CPS1 is a multidomain mitochondrial enzyme which produces carbamoyl phosphate (CP) from ammonia and bicarbonate and initiates disposal of nitrogen (Kim et al. 2017). CPS1 is the rate-limiting enzyme in the first step of the urea cycle, and is crucial for correct human liver metabolism. It is involved with arginine and pyrimidine metabolism (Çeliktas et al. 2017).</p> <p>CPS1 is involved with liver diseases such as hepatitis C (HCV) and hepatic fibrosis (Wu et al. 2020). It is expressed mostly in intestinal epithelial cells and liver cells, but also in many cancer types including liver, colorectal, stomach, cervical, and pancreatic cancer (Çeliktas et al. 2017). Accordingly, CPS1 is involved with the occurrence and development of malignancies (Wu et al. 2020).</p>
Storage	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: 10048: https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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