

## Datasheet: MCA6360

**BATCH NUMBER 170162**

<b>Description:</b>	RABBIT ANTI CPS1
<b>Specificity:</b>	CPS1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM395
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	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.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31327</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1373</a>    CPS1    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Rabbit anti CPS1 antibody</b> 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 (<a href="#">Kim et al. 2017</a>). 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 (<a href="#">Çeliktas et al. 2017</a>).</p> <p>CPS1 is involved with liver diseases such as hepatitis C (HCV) and hepatic fibrosis (<a href="#">Wu et al. 2020</a>). 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 (<a href="#">Çeliktas et al. 2017</a>). Accordingly, CPS1 is involved with the occurrence and development of malignancies (<a href="#">Wu et al. 2020</a>).</p>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6360">https://www.bio-rad-antibodies.com/SDS/MCA6360</a>
<b>Regulatory</b>	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](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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