

## Datasheet: MCA6360

<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 Stabilisers

0.09% Sodium Azide  
 1% Bovine Serum Albumin

50% Glycerol

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**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.

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**External Database Links**

**UniProt:**

[P31327](#)    [Related reagents](#)

**Entrez Gene:**

[1373](#)    CPS1    [Related reagents](#)

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**Specificity**

**Rabbit anti CPS1 antibody** recognizes carbamoyl a multidomain mitochondrial enzyme which l-phosphate synthase [ammonia], mitochondrial, also known as CPSase I.

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](#)).

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](#)).

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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10048 available at:  
10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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**Regulatory**

For research purposes only

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## 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](https://bio-rad-antibodies.com/datasheets)

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