

# Datasheet: MCA6360

**BATCH NUMBER 157623**

|                      |                     |
|----------------------|---------------------|
| <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<br>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>       | <b>UniProt:</b><br><a href="#">P31327</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">1373</a> CPS1 <a href="#">Related reagents</a>  |
| <b>Specificity</b>                   | <p><b>Rabbit anti CPS1 antibody</b> recognizes carbamoyl is 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>                       | Store at -20°C only.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.  |
| <b>Guarantee</b>                     | 12 months from date of despatch  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10048 available at:<br><a href="https://www.bio-rad-antibodies.com/SDS/MCA6360">https://www.bio-rad-antibodies.com/SDS/MCA6360</a><br>10048   |
| <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](#)

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