

## Datasheet: MCA6304

|                      |                      |
|----------------------|----------------------|
| <b>Description:</b>  | RABBIT ANTI p38 MAPK |
| <b>Specificity:</b>  | p38 MAPK             |
| <b>Format:</b>       | Purified             |
| <b>Product Type:</b> | Monoclonal Antibody  |
| <b>Clone:</b>        | RM245                |
| <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 | ▪   |    |                | 1/1000 - 1/5000    |
| Western Blotting           | ▪   |    |                | 1/1000 - 1/2000    |

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.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Species Cross Reactivity</b> | Based on sequence similarity, is expected to react with: Rat, Mouse<br><b>N.B.</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. |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant   |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide<br>1% Bovine Serum Albumin   |

50% Glycerol

|                               |  |
|-------------------------------|--|
| Immunogen                     | A peptide corresponding to Human p38 MAPK  |
| External Database Links       | <b>UniProt:</b><br><a href="#">Q16539</a> <a href="#">Related reagents</a><br><a href="#">P53778</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">1432</a> MAPK14 <a href="#">Related reagents</a><br><a href="#">6300</a> MAPK12 <a href="#">Related reagents</a>   |
| Synonyms                      | CSBP, CSBP1, CSBP2, CSPB1, ERK6, MXI2, SAPK3   |
| Specificity                   | <b>Rabbit anti Human MAPK14 antibody</b> recognizes mitogen-activated protein kinase 14, also known as p38alpha, CSBP, MXI2, SAPK2A. MAPK14 is a member of the p38 MAP kinase (MAPK) family, and is a stress-activated serine/threonine protein kinase involved with inflammation. MAPK14 is activated in response to extracellular stress and helps regulate transcription and translation of specific genes, allowing a cell to fine-tune its response. Within the immune system, MAPK14 promotes production of pro-inflammatory cytokines from macrophages, and helps determine the strength and duration of the inflammatory response ( <a href="#">Alam and Scheper 2016</a> ). MAPK14 is able to regulate a diverse range of biological processes, including cell proliferation, differentiation, apoptosis, senescence, and inflammation ( <a href="#">Wu et al. 2019</a> ). In colon cancer, MAPK14 has been shown to be required for cell proliferation and survival, and its inhibition leads to cell cycle arrest and autophagy-mediated cell death ( <a href="#">Paillas et al. 2012</a> ). MAPK14 inhibition has been suggested as a treatment for several inflammatory diseases, including Chron's disease and rheumatoid arthritis ( <a href="#">She et al. 2018</a> ). |
| Storage                       | 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   |
| Guarantee                     | 12 months from date of despatch  |
| Health And Safety Information | Material Safety Datasheet documentation #10048 available at:<br><a href="https://www.bio-rad-antibodies.com/SDS/MCA630410048">https://www.bio-rad-antibodies.com/SDS/MCA630410048</a>  |
| Regulatory                    | For research purposes only   |

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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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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