

## Datasheet: MCA6303

<b>Description:</b>	RABBIT ANTI p38 MAPK (pThr180/pTyr182)
<b>Specificity:</b>	p38 MAPK (pThr180/pTyr182)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM243
<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	▪			1/500 - 1/1000
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>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</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A phospho-peptide corresponding to Human p38 MAPK (pThr180/Tyr182)
<b>External Database Links</b>	<b>UniProt:</b>

**Entrez Gene:**

[1432](#)   MAPK14   [Related reagents](#)

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<b>Synonyms</b>	CSBP, CSBP1, CSBP2, CSPB1, MXI2
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<b>Specificity</b>	<p><b>Rabbit anti Human MAPK14 (pThr180/pTyr182) antibody</b> recognizes mitogen-activated protein kinase 14, also known as MAP kinase p38 alpha, CSBP, MXI2, SAPK2A, when phosphorylated at threonine 180 and tyrosine 182. 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>). MAPK14 is activated by phosphorylation of threonine 180 and tyrosine 182, by several upstream kinases, in response to a wide range of extracellular stimuli such as UV B irradiation or endotoxin exposure (<a href="#">Brichkina et al. 2016</a>).</p>
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<b>Storage</b>	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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA630310048">https://www.bio-rad-antibodies.com/SDS/MCA630310048</a>
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<b>Regulatory</b>	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](#)
- 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](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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