

Datasheet: MCA6303

BATCH NUMBER 155776

Description:	RABBIT ANTI p38 MAPK (pThr180/pTyr182)
Specificity:	p38 MAPK (pThr180/pTyr182)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM243
Isotype:	IgG
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A phospho-peptide corresponding to Human p38 MAPK (pThr180/Tyr182)
External Database	UniProt:

Links[Q16539](#)[Related reagents](#)**Entrez Gene:**[1432](#)

MAPK14

[Related reagents](#)**Synonyms**

CSBP, CSBP1, CSBP2, CSPB1, MXI2

Specificity

Rabbit anti Human MAPK14 (pThr180/pTyr182) antibody 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 ([Alam and Scheper 2016](#)). MAPK14 is able to regulate a diverse range of biological processes, including cell proliferation, differentiation, apoptosis, senescence, and inflammation ([Wu et al. 2019](#)). 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 ([Paillas et al. 2012](#)). MAPK14 inhibition has been suggested as a treatment for several inflammatory diseases, including Chron's disease and rheumatoid arthritis ([She et al. 2018](#)). 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 ([Brichkina et al. 2016](#)).

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

Guarantee

12 months from date of despatch

Health And Safety InformationMaterial Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA630310048>**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](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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