

# Anti-p38 $\alpha$ MAP Kinase (C-terminal) Antibody

Catalog # AN1877

## Product Information

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Application	WB, ICC
Primary Accession	<a href="#">Q16539</a>
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M548
Calculated MW	41293

## Additional Information

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Gene ID	1432
Other Names	MAPK, p38, p38alpha, p38MAPK
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-p38 $\alpha$ MAP Kinase (C-terminal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

## Background

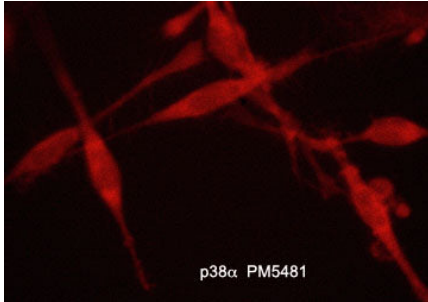
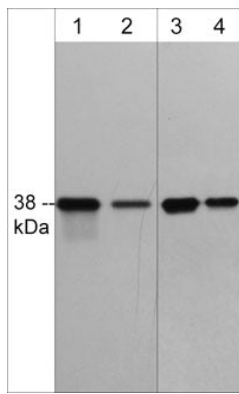
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p38 MAP kinase (MAPK), also called RK, CSBP, and SAPK2a, is the mammalian orthologue of the yeast HOG kinase. This family of kinases participates in signaling cascades that control cellular responses to cytokines and stress. Four isoforms of p38 MAPK ( $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ ) have been identified. Similar to the SAPK/JNK pathway, p38 MAPK is activated by a variety of cellular stresses including osmotic shock, inflammatory cytokines, lipopolysaccharides, UV light, and growth factors. MKK3 and SEK activate p38 MAPK by dual phosphorylation at Thr-180/Tyr-182. Activated p38 MAPK has been shown to phosphorylate and activate MAPKAP kinase 2 and to phosphorylate the transcription factors ATF-2, Max, and MEF2. T cells possess an alternative pathway for p38 activation where stimulation of the antigen receptor (TCR) induces phosphorylation of p38 on Tyr-323. This site is required for TCR-mediated phosphorylation of Thr-180 and catalytic activity. Thus, Tyr-323 may also have important roles in regulating p38 MAP kinase pathways.

## Images

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Western blot analysis of human A431 cells (lanes 1 & 2) and rat A7r5 cells (lanes 3 & 4). The blot was probed with mouse monoclonal anti-p38 $\alpha$  (C-terminal) clone M548 at a dilution of 1:250 (lanes 1 & 3) or 1:1000 (lanes 2 & 4).



Immunocytochemical labeling of p38α in aldehyde fixed and NP-40 permeabilized human NCI-H446 lung carcinoma cells. The cells were labeled with mouse monoclonal anti-p38α (AN1877). The antibody was detected using goat anti-mouse DyLight® 594.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.