BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-MAPK14 Antibody (Y323)

**Catalog Number:** A00176-1

## About MAPK14

MAPK14 is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response.

## Overview

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|---|---|
| Product Name | Anti-MAPK14 Antibody (Y323) |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-MAPK14 Antibody (Y323) (Catalog # A00176-1). Tested in WB, Flow Cytometry application(s). This antibody reacts with Human, Mouse, Rat. |
| Application | Flow Cytometry, WB |
| Clonality | Polyclonal |
| Formulation | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | Q16539 |

## Technical Details

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| Immunogen | This MAPK14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 301-330 amino acids from human MAPK14. |
| Predicted Reactive Species | Monkey |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |

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| | |
|---|---|
| Purification | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>WB: 1:2000<br>FC: 1:25 |

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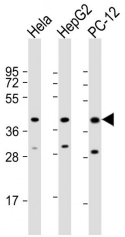
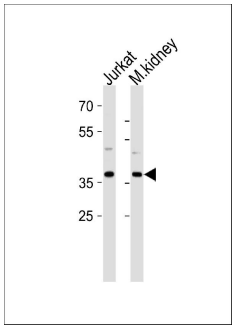
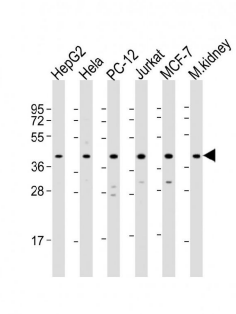
# Anti-MAPK14 Antibody (Y323) (A00176-1) Images



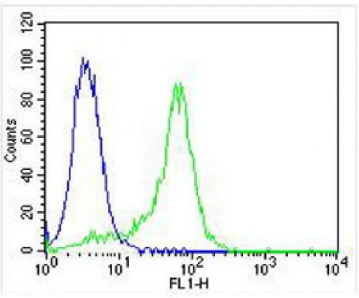

All lanes : Anti-MAPK14 Antibody (Y323) at 1:2000 dilution
Lane 1: Hela whole cell lysate
Lane 2: HepG2 whole cell lysate
Lane 3: PC-12 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 41 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.




MAPK14 Antibody (Y322) (Cat. #A00176-1) western blot analysis in Jurkat cell line and mouse kidney tissue lysates (35ug/lane). This demonstrates the MAPK14 antibody detected the MAPK14 protein (arrow).




All lanes : Anti-MAPK14 Antibody (Y323) at 1:2000 dilution
Lane 1: HepG2 whole cell lysate
Lane 2: Hela whole cell lysate
Lane 3: PC-12 whole cell lysate
Lane 4: Jurkat whole cell lysate
Lane 5: MCF-7 whole cell lysate
Lane 6: mouse kidney lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 41 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.




Overlay histogram showing Hela cells stained with A00176-1 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (A00176-1, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1ug/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

## Submit a product review to Biocompare.com

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# Anti-MAPK14 Antibody (Y323)