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Datasheet for ABIN7150721
anti-MAP2K6 antibody (AA 1-334)

1 Image

Overview

Quantity:	100 µg
Target:	MAP2K6
Binding Specificity:	AA 1-334
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP2K6 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Dual specificity mitogen-activated protein kinase kinase 6 protein (1-334AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	MAP2K6
Alternative Name:	MAP2K6 (MAP2K6 Products)
Background:	Background: Dual specificity protein kinase which acts as an essential component of the MAP

Target Details

kinase signal transduction pathway. With MAP3K3/MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3/MKK3 and MAP2K6/MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6/MKK6 is the major MAPK11 activator in response to TNF. MAP2K6/MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6/MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction, and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF-kappa-B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of the p38 MAPK pathway. MAP2K6/MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases.

Aliases: Dual specificity mitogen activated protein kinase kinase 6 antibody, Dual specificity mitogen-activated protein kinase kinase 6 antibody, MAP kinase kinase 6 antibody, MAP2K6 antibody, MAPK/ERK kinase 6 antibody, MAPKK 6 antibody, MAPKK6 antibody, MEK 6 antibody, MEK6 antibody, Mitogen Activated Protein Kinase Kinase 6 antibody, MKK 6 antibody, MKK6 antibody, MP2K6_HUMAN antibody, PRKMK6 antibody, protein kinase antibody, Protein kinase mitogen activated kinase 6 antibody, protein kinase, mitogen-activated, kinase 6 (MAP kinase kinase 6) antibody, SAPK kinase 3 antibody, SAPKK-3 antibody, SAPKK3 antibody, SKK3 antibody, Stress-activated protein kinase kinase 3 antibody

UniProt: [P52564](#)

Pathways: [MAPK Signaling](#), [TLR Signaling](#), [Activation of Innate immune Response](#), [Regulation of Muscle Cell Differentiation](#), [Toll-Like Receptors Cascades](#)

Application Details

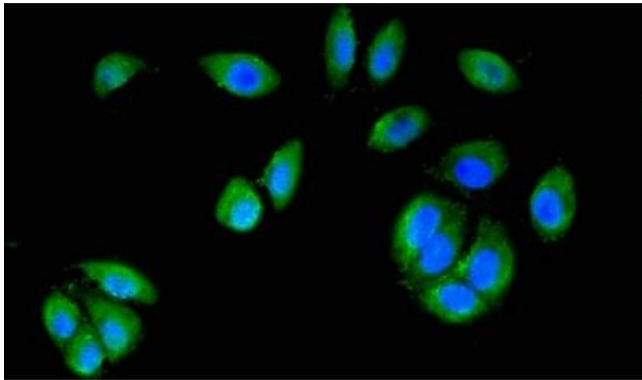
Application Notes: Recommended dilution: IF:1:200-1:500,

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescence staining of A549 cells with ABIN7150721 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).