Datasheet for ABIN7177157

anti-MAP2K4 antibody (AA 2-397)

1 Image

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Overview

Quantity:	100 µg
Target:	MAP2K4
Binding Specificity:	AA 2-397
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP2K4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant Mouse Dual specificity mitogen-activated protein kinase kinase 4 protein (2-397AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	MAP2K4
Alternative Name:	Map2k4 (MAP2K4 Products)
Background:	Background: Dual specificity protein kinase which acts as an essential component of the MAP

Target Details

	kinase signal transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. With MAP2K7/MKK7, is the one of the only known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MKK4 and MAP2K7/MKK7 both activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation site in the Thr-Pro-Tyr motif. MAP2K4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MKK7 for the Thr residue. The phosphorylation of the Thr residue by MAP2K7/MKK7 seems to be the prerequisite for JNK activation at least in response to proinflammatory cytokines, while other stimuli activate both MAP2K4/MKK4 and MAP2K7/MKK7 which synergistically phosphorylate JNKs. MAP2K4 is required for maintaining peripheral lymphoid homeostasis. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. Whereas MAP2K7/MKK7 exclusively activates JNKs, MAP2K4/MKK4 additionally activates the p38 MAPKs MAPK11, MAPK12, MAPK13 and MAPK14. Aliases: Map2k4 antibody, Jnkk1 antibody, Mek4 antibody, Mkk4 antibody, Prkmk4 antibody, Sek1 antibody, Serk1 antibody, Skk1 antibody, Dual specificity mitogen-activated protein kinase kinase 4 antibody, MAP kinase kinase 4 antibody, MAPKK 4 antibody, EC 2.7.12.2 antibody, C-JUN N-terminal kinase kinase 1 antibody, JNK kinase 1 antibody, JNKK 1 antibody, JNK-activating kinase 1 antibody, MAPK/ERK kinase 4 antibody, MEK 4 antibody, SAPK/ERK kinase 1 antibody, SEK1 antibody
UniProt:	P47809
Pathways:	MAPK Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades, BCR Signaling

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000,
Restrictions:	For Research Use only

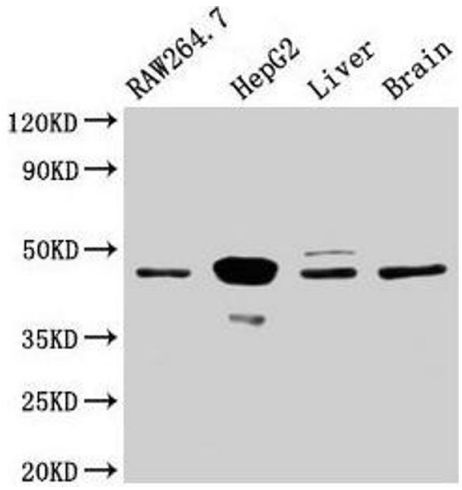
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin

Handling

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



Western Blotting

Image 1. Western Blot Positive WB detected in: RAW264.7 whole cell lysate, HepG2 whole cell lysate, Rat liver tissue, Mouse brain tissue All lanes: Map2k4 antibody at 3.2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa