Datasheet for ABIN7150712

anti-MAP2K4 antibody (AA 259-398) (Biotin)

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Overview

Quantity:	100 µg
Target:	MAP2K4
Binding Specificity:	AA 259-398
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP2K4 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Dual specificity mitogen-activated protein kinase kinase 4 protein (259-398AA)
Isotype:	IgG
Cross-Reactivity:	Human
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: c Jun N terminal kinase kinase 1 antibody, C-JUN N-terminal kinase kinase 1 antibody, Dual specificity mitogen activated protein kinase kinase 4 antibody, Dual specificity mitogen-activated protein kinase kinase 4 antibody, JNK Activated Kinase 1 antibody, JNK activating kinase 1 antibody, JNK-activating kinase 1 antibody, JNKK antibody, JNKK1 antibody, MAP kinase kinase 4 antibody, Map2k4 antibody, MAPK ERK kinase 4 antibody, MAPK/ERK kinase 4 antibody, MAPKK 4 antibody, MAPKK4 antibody, MEK 4 antibody, MEK4 antibody, Mitogen activated protein kinase kinase 4 antibody, MKK 4 antibody, MKK4 antibody, MP2K4_HUMAN antibody, PRKMK4 antibody, SAPK ERK kinase 1 antibody, SAPK/ERK kinase 1 antibody, SAPKK 1 antibody, SAPKK1 antibody, SEK1 antibody, SERK1 antibody, SKK1 antibody, Stress activated protein kinase kinase 1 antibody
UniProt:	P45985
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:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

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.