

Datasheet for ABIN7150711  
**anti-MAP2K4 antibody (AA 259-398)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µg
Target:	MAP2K4
Binding Specificity:	AA 259-398
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP2K4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

## 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 ( <a href="#">MAP2K4 Products</a> )
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:	<a href="#">P45985</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">BCR Signaling</a>

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:100-1:500, IF:1:50-1:500,
Restrictions:	For Research Use only

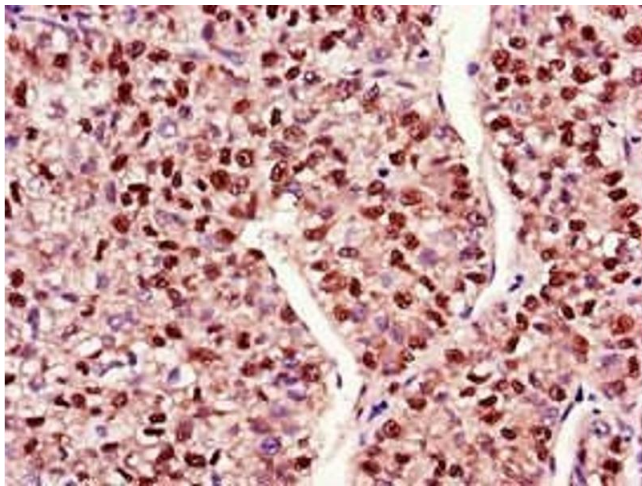
Handling

Format:	Liquid
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## Handling

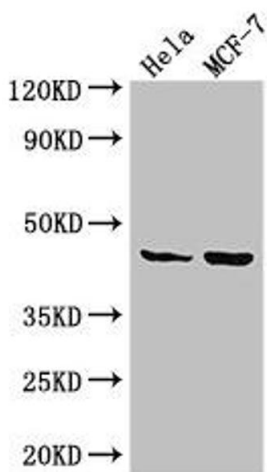
Buffer:	Preservative: 0.03 % Proclin 300
	Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store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

## Images



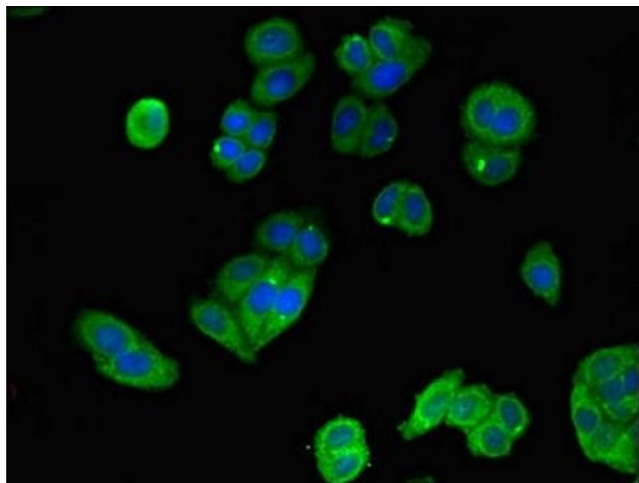
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human liver cancer using ABIN7150711 at dilution of 1:100



### Western Blotting

**Image 2.** Western Blot Positive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate All lanes: MAP2K4 antibody at 3.25 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 45, 46 kDa Observed band size: 45 kDa



#### Immunofluorescence

**Image 3.** Immunofluorescent analysis of HepG2 cells using ABIN7150711 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)