

Datasheet for ABIN7150725
anti-MAP2K7 antibody (AA 17-160)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	MAP2K7
Binding Specificity:	AA 17-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP2K7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Dual specificity mitogen-activated protein kinase kinase 7 protein (17-160AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	MAP2K7
Alternative Name:	MAP2K7 (MAP2K7 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 MAP2K4/MKK4, 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/MKK4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MKK7 for the Thr residue. The monophosphorylation of JNKs on the Thr residue is sufficient to increase JNK activity indicating that MAP2K7/MKK7 is important to trigger JNK activity, while the additional phosphorylation of the Tyr residue by MAP2K4/MKK4 ensures optimal JNK activation. Has a specific role in JNK signal transduction pathway activated by proinflammatory cytokines. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis.

Aliases: c-Jun N-terminal kinase kinase 2 antibody, Dual specificity mitogen activated protein kinase kinase 7 antibody, Dual specificity mitogen-activated protein kinase kinase 7 antibody, JNK activating kinase 2 antibody, JNK kinase 2 antibody, JNK-activating kinase 2 antibody, JNKK 2 antibody, Jnkk-2 antibody, Jnkk2 antibody, MAP kinase kinase 7 antibody, MAP2K7 antibody, MAPK/ERK kinase 7 antibody, MAPKK 7 antibody, MAPKK-7 antibody, MAPKK7 antibody, MEK 7 antibody, Mitogen Activated Protein Kinase kinase 7 antibody, MKK 7 antibody, MKK-7 antibody, MKK7 antibody, MP2K7_HUMAN antibody, PRKMK 7 antibody, PRKMK-7 antibody, PRKMK7 antibody, SAPK kinase 4 antibody, SAPKK-4 antibody, SAPKK4 antibody, Sek 2 antibody, Sek-2 antibody, Sek2 antibody, SKK4 antibody, stress-activated protein kinase kinase 4 antibody

UniProt: [O14733](#)

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:1:1000-1:5000, IF:1:50-1:200,

Restrictions: For Research Use only

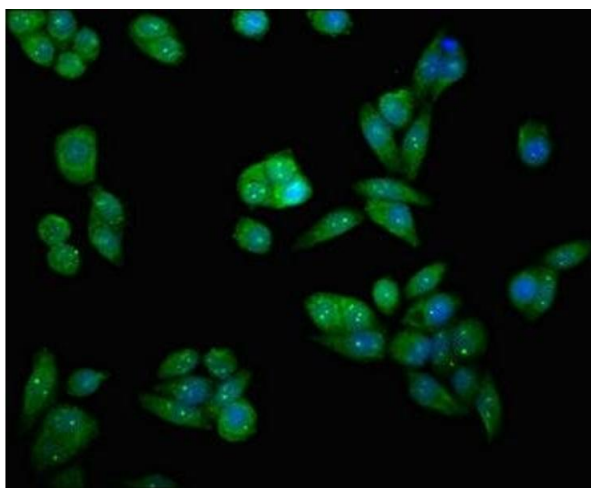
Handling

Format: Liquid

Handling

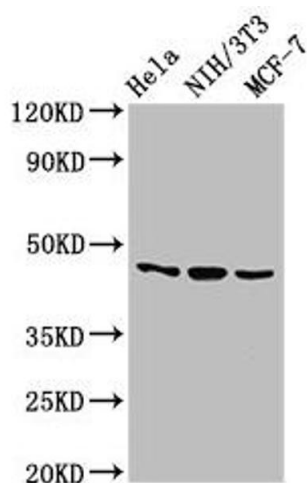
Buffer:	Preservative: 0.03 % Proclin 300
	Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, -80 °C
Storage Comment:	Upon receipt, store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

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of PC-3 cells using ABIN7150725 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blotting

Image 2. Western Blot Positive WB detected in: HeLa whole cell lysate, NIH/3T3 whole cell lysate, MCF-7 whole cell lysate All lanes: MAP2K7 antibody at 2.7 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 48, 52, 50, 49 kDa Observed band size: 48 kDa