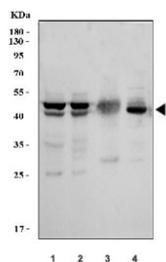


## MKK7 Antibody / MAP2K7 / MEK7 (R31022)

Catalog No.	Formulation	Size
R31022	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	O14733
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This MKK7 antibody is available for research use only.



Western blot testing of 1) human HeLa, 2) monkey COS-7, 3) rat skeletal muscle and 4) mouse skeletal muscle tissue lysate with MKK7 antibody. Predicted molecular weight ~47 kDa.

## Description

MAP2K7 (Mitogen-activated protein kinase kinase 7), also known as MAP kinase kinase 7 (MAPKK7), JNKK2, PRKMK7, Mek7 and MKK7, is an enzyme that in humans is encoded by the MAP2K7 gene. This protein is a member of the mitogen-activated protein kinase kinase family. The protein exists as six different isoforms with three possible N-termini (alpha, beta, and gamma isoforms) and two possible C-termini (1 and 2 isoforms). Schramek et al.(2011) showed that the doxorubicin-mediated DNA damage response in human A549 lung carcinoma cells caused rapid phosphorylation and upregulation of p53 (TP53). MKK7 / Mek7 knockdown reduced p53 phosphorylation, delayed p53 upregulation, and

interfered with cell cycle arrest at G2/M. the protein was activated in primary lung tumors, and tumors with a p53 mutation showed even higher MKK7 phosphorylation. Schramek et al.(2011) concluded that MKK7 / Mek7 exerts its tumor suppressive function through p53.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MKK7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the N-terminus of human MEK7/MKK7 (ARRRIDLNLDISPQRPR) was used as the immunogen for this MKK7 antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the MKK7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.