

For Research Use Only

# MEKK3 Polyclonal antibody

Catalog Number: 21072-1-AP

3 Publications



## Basic Information

Catalog Number:

21072-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15223

GenBank Accession Number:

BC090859

GeneID (NCBI):

4215

UNIPROT ID:

Q99759

Full Name:

mitogen-activated protein kinase kinase kinase 3

Calculated MW:

657 aa, 74 kDa

Observed MW:

71 kDa, 74 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: mouse liver tissue,

IP: mouse liver tissue,

IHC: human liver cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The mitogen-activated protein/ERK kinase kinase 3 (MEKK3) is a member of a family of MEKK/Ste11 serine/threonine protein kinases. One function of MEKK3 is to serve as an upstream regulatory kinase in the mitogen-activated protein kinase cascade, however, it also plays a critical role in other signaling pathways. MEKK3 regulates several important functions including cell survival and proliferation. It is ubiquitously expressed in multiple tissues and has been found in complexes with scaffold proteins and other kinases. (PMID: 18206350). Cerebral cavernous malformations (CCMs) complex regulation of MEKK3 is essential during vertebrate heart development. MEKK3 signalling and KLF2/4 may be targeted to develop new CCM therapeutics.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinqiu Lu	29662197	Oncogene	WB, IF, IP
Waleeporn Kaewlert	39418964	Biomed Pharmacother	WB, IHC
Xianbin Wang	38678068	Sci Rep	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

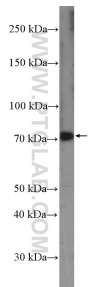
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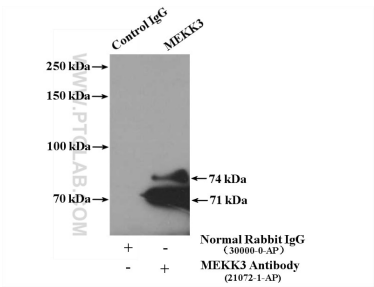
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Selected Validation Data



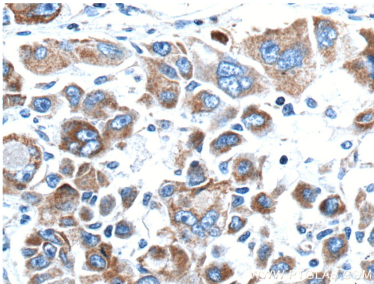
mouse liver tissue were subjected to SDS PAGE followed by western blot with 21072-1-AP (MEKK3 antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-MEKK3 (IP:21072-1-AP, 4ug; Detection:21072-1-AP 1:300) with mouse liver tissue lysate 7000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21072-1-AP (MEKK3 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21072-1-AP (MEKK3 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).