

Description:	Rabbit anti-MEK1/2(pSer <sup>218/222</sup> )
Catalogue#:	620-190
Lot#:	See the label
Size:	100 ug/200 ul
Host:	Rabbit
Clone:	N/A
Application:	ELISA, WB
Reactivity:	Hu, Ms, Rt, Ck

## Rabbit anti MEK1/2(pSer<sup>218/222</sup>), Phosphospecific

Alternate Names: MAPKK1/2, MEK1/2.

### ANTIGEN PREPARATION

A synthetic peptide surrounding the epitope –SMANS- with double phosphorylation sites Ser218 and Ser222. This sequence is identical among human, rat, mouse, chicken.

### BACKGROUND

The MEK1 & 2 (MAPKK1/2) are members of tyrosine/threonine protein kinase family that activate the ERK1+2/MAPK enzymes by phosphorylation. MEK 1 + 2 are also activated by dual-phosphorylation, which occurs on serine 218 and 222, in the activation loop of the MEKs. The MEK1 & 2 are regulated by phosphorylation by one of the MEK kinases.

### PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

### FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

### SPECIFICITY

This antibody recognizes ~44/45 kDa of human MEK1 protein at the phosphorylation site of Ser 218/222 or MEK2(pS222/226). It does not cross react to non-phospho MEK1/2. This antibody also reacts with mouse and rat, chicken. The other species are not tested.

### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

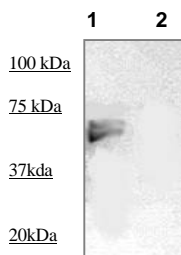
### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested
Flow cytometry	Not tested

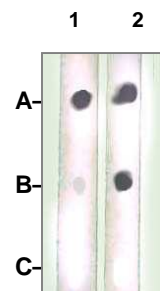
<b>MOLECULAR WEIGHT:</b>	44 kDa
<b>POSITIVE CONTROL:</b>	Conditioned 3T3
<b>CELLULAR LOCATION:</b>	N/A

Optimal dilutions should be determined by researchers for the specific applications.

### DATA ATTACHMENTS



**Western Blot:** The whole cell lysates derived from Starved 3T3 were immunoblotted by Rabbit anti-MEK1/2(pSer218/222) (Cat#620-190) at 1:1000 (lane 1). The lane 2 was a negative control.



#### Dot Blot:

1 µg peptide was blot onto NC membrane  
A: MEK1/2 (pS218/222)  
B: MEK1/2 (Nonphospho);  
C: Non-related phosphospecific PP  
were blotted at a 1:1000 dilution by:  
1: Rabbit anti-MEK1/2 (pS218/222), (Cat#620-190);  
2: Rabbit anti-MEK1/2 (paired 218/222) (Cat#620-180)

### REFERENCES

Ali R. Jazirehi, et al. Inhibition of the Raf–MEK1/2–ERK1/2 Signaling Pathway, Bcl-xL Down-Regulation, and Chemosensitization of Non-Hodgkin's Lymphoma B Cells by Rituximab. CANCER RESEARCH 64, 7117–7126, October 1, 2004

**FOR RESEARCH USE ONLY.**