

For Research Use Only

Phospho-MEK1 (Thr286) Recombinant antibody

Catalog Number: 80629-2-RR



Basic Information

Catalog Number:

80629-2-RR

Size:

1000 μ g/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC139729

GeneID (NCBI):

5604

ENSEMBL Gene ID:

ENSG00000169032

UNIPROT ID:

Q02750

Full Name:

mitogen-activated protein kinase
kinase 1

Calculated MW:

43 kDa

Observed MW:

40-45 kDa

Purification Method:

Protein A purification

CloneNo.:

241910G6

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : nocodazole treated NIH/3T3 cells,

Background Information

MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 phosphorylation that together lead to continuous activation of MEK/ERK signaling pathway. MEK1 bind directly to ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence in MEK is also involved in MEK-ERK association and signal propagation. The coupling between MEK1 and ERK2 is enhanced through phosphorylation on S298 in the MEK1 PR region, whereas phosphorylation on MEK1 T292 releases the complex. MEK1 enzymatic activity is regulated by site-specific phosphorylation that can be activated with phosphorylation of Ser217/Ser221 by Raf kinase or suppressed by phosphorylation of Thr286 and Thr292 by CDK1 and CDK5 or Thr292 and Thr386 by ERK1/2. (PMID: 31972311, PMID: 17928366, PMID: 22177953)

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

For technical support and original validation data for this product please contact:

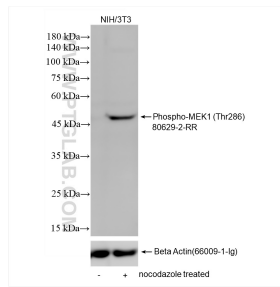
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Selected Validation Data



Non-treated NIH/3T3 cells and nocodazole treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80629-2-RR (Phospho-MEK1 (Thr286) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as loading control.