For Research Use Only

Phospho-MEK1 (Thr286) Recombinant antibody

Catalog Number:80629-2-RR



Basic Information

Catalog Number: GenBank Accession Number:

80629-2-RR BC139729 GeneID (NCBI):

100ul , Concentration: 1000 $\mu g/ml$ by 5604 Nanodrop: ENSEMBL Gene ID: Source: ENSG00000169032

Rabbit **UNIPROT ID:** Isotype: Q02750 IgG Full Name:

mitogen-activated protein kinase

kinase 1 Calculated MW: 43 kDa Observed MW: 40-45 kDa

CloneNo.: 241910G6

Purification Method:

Protein A purfication

Recommended Dilutions: WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

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 $Ser 217/Ser 221\ by\ Rafkin as e\ or\ suppressed\ by\ phosphory lation\ of\ Thr 286\ and\ Thr 292\ by\ CDK1\ and\ CDK5\ or\ Thr\ 292\ by$ and Thr386 by ERK1/2. (PMID: 31972311, PMID: 17928366, PMID: 22177953)

Storage

Storage:

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

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

Aliquoting is unnecessary for -20°C storage

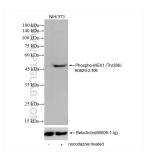
*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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-lg) antibody as loading control.