For Research Use Only

Phospho-MEK1 (Thr286) Recombinant antibody, PBS Only

Catalog Number:80629-2-PBS



Basic Information

Catalog Number:

GenBank Accession Number: BC139729

Purification Method: Protein A purfication

80629-2-PBS

GeneID (NCBI):

Rabbit

Isotype:

IgG

100ug, Concentration: 1 mg/ml by

CloneNo.: 241910G6

Nanodrop: Source:

ENSEMBL Gene ID: ENSG00000169032 **UNIPROT ID:**

Q02750 Full Name:

mitogen-activated protein kinase

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

Applications

Tested Applications: WB, Indirect ELISA Species Specificity: human, mouse

Background Information

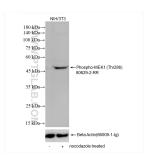
MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 phosphorylation that together lead to continuous activation of MEK/ERK signaling pathway. MEK1 bind directly to ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence 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 -80°C. Storage Buffer: PBS Only

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

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. This data was developed using the same antibody clone with 80629-2-PBS in a different storage buffer formulation.